

MS4 FIELD INFORMATION APPENDIX

GAINESVILLE

(GNV)

FIELD INFORMATION - GAINESVILLE (GNV - BMP - C - OUT -1)

Sample identification

- o GNV - BMP - C - OUT -1

Jurisdiction

- o City of Gainesville

Land use zoning

- o Commercial

Location

- o NW 29th Rd/NW 13th St

Co-ordinates

- o 29.679371, -82.342100

Date and time (with previous dry hours)

- o 07/16/2010 8:20 AM
- o pdh ~ 8

Sampling personnel

- o Tim, Keith, Chris

Description of catchment

Cover information

- o Concrete 100%

Potential constraints to property access

- o Commercial

Typical geometry and R/W section

- o 2 lane street with 40 ft R/W with a curb and gutter system

Run-on conditions

- o Run off grass strip and asphalt roadway

Reclaimed water application

- o No

Basic description of soil type

- o Millhopper

Drainage appurtenances in the area

- o P5 and P6 catch basin

Significant features influencing PM, N, P load

- o Grass clippings and lead debris

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Hydrodynamic separator

Approximate age

- o ~10 years

Previous cleaning activity

- o February 2010

Condition

- o Floating debris with sediment and functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 4' x 4'. 50 ft³

Description of flow to BMP

- o Discharge from upstream

Description of sampling method

- o Composite grab with SS spoon

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o 1650 g

Description of sample and COC

- o Moist, biogenic
- o COC provided on 07/16/2010



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
GNV : Gainesville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV - BMP - C - OUT -2)

Sample identification

- o GNV - BMP - C - OUT -2

Jurisdiction

- o City of Gainesville

Land use zoning

- o Commercial

Location

- o N Main St/NE Boulevard

Co-ordinates

- o 29.661021, -82.323583

Date and time (with previous dry hours)

- o 07/22/2010 4:45 PM
- o pdh ~ 24

Sampling personnel

- o Chris, Tim, Little

Description of catchment

Cover information

- o Concrete 100%

Potential constraints to property access

- o FDOT R/W with City R/W in commercial zone

Typical geometry and R/W section

- o 2 lane highway with a 121 foot right of way and a 45 ft median and a curb and gutter

Run-on conditions

- o Run off from concrete sidewalk, grass strip, and asphalt roadway

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o P3 and dP4 curb inlets

Significant features influencing PM, N, P load

- o Grass, leaf debris, and roadway litter

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Sediment trap

Approximate age

- o ~10 years

Previous cleaning activity

- o February 2010

Condition

- o Floating debris with sediment and functional

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 4' x 12' 5.6 ft³

Description of flow to BMP

- o Discharge from upstream

Description of sampling method

- o Composite grab with SS spoon

Traffic estimate (ADT)

- o 16,694

Approx. weight of recovered sample

- o 1425 g

Description of sample and COC

- o Moist, anthropogenic
- o COC provided on 07.23.2010



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
GNV : Gainesville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV - BMP - C - OUT -3)

Sample identification

- o GNV - BMP - C - OUT -3

Jurisdiction

- o City of Gainesville

Land use zoning

- o Commercial

Location

- o SW 6th Street and SW 5th Ave

Co-ordinates

- o 29.647051, -82.331705

Date and time (with previous dry hours)

- o 07/27/2010 8:30 AM
- o pdh ~ 144

Sampling personnel

- o Chris, Tim, Little

Description of catchment

Cover information

- o Concrete 100%

Potential constraints to property access

- o City R/W

Typical geometry and R/W section

- o 3 lane street with 40 ft right of way with curb and gutter system

Run-on conditions

- o Run off from sidewalk, grass strip, and asphalt roadway

Reclaimed water application

- o SW

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o P3 and P4 catch basins

Significant features influencing PM, N, P load

- o Grass debris, leaf debris, and roadway litter

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Baffle box

Approximate age

- o ~8 years

Previous cleaning activity

- o 2002

Condition

- o Floating debris with sediment and functional

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 18' x 18' . 108 ft³

Description of flow to BMP

- o Discharge from upstream

Description of sampling method

- o Composite grab with SS spoon

Traffic estimate (ADT)

- o 6,074

Approx. weight of recovered sample

- o 2050 g

Description of sample and COC

- o Moist, anthropogenic
- o COC provided on 07.27.2010



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
GNV : Gainesville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV - BMP - H - OUT -1)

Sample identification

- o GNV - BMP - H - OUT -1

Jurisdiction

- o City of Gainesville

Land use zoning

- o Highway

Location

- o NW 83rd St/NW 39th Ave

Co-ordinates

- o 29.688952, -82.430745

Date and time (with previous dry hours)

- o 07/27/2010 9:00 AM
- o pdh ~ 192

Sampling personnel

- o Chris, Tim

Description of catchment

Cover information

- o Concrete 1%, Grass 86%, Tree 13%

Potential constraints to property access

- o FDOT
- o R/W

Typical geometry and R/W section

- o 3 lane road with 45 ft median, 110 ft right of way, and curb and gutter drainage system

Run-on conditions

- o Run off from sidewalk, grass strip, asphalt roadway, and surrounding woods

Reclaimed water application

- o N/A

Basic description of soil type

- o Lochloosa – Hydro C

Drainage appurtenances in the area

- o P6 and P5 catch basins

Significant features influencing PM, N, P load

- o Roadside litter

Predominant PM, N, and P sources

- o Biogenic

Description of BMP

Type

- o Detention Pond, reservoir

Approximate age

- o ~18 years

Previous cleaning activity

- o Unknown

Condition

- o Heavy sediment and floating debris

Condition of PM residuals

- o Submerged

Dimensions and volume

- o Large pond

Description of flow to BMP

- o Runoff from highway and surrounding woods

Description of sampling method

- o Composite grab with SS spoon

Traffic estimate (ADT)

- o 28,000

Approx. weight of recovered sample

- o 2625 g

Description of sample and COC

- o Moist, biogenic
- o COC provided on 07/23/2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
GNV : Gainesville
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV - BMP - H - OUT -2)

Sample identification

- o GNV - BMP - H - OUT -2

Jurisdiction

- o City of Gainesville

Land use zoning

- o Highway

Location

- o Downtown business district highway

Co-ordinates

- o 29.651089, -82.320734

Date and time (with previous dry hours)

- o 07/27/2010 10:30 AM
- o pdh ~ 144

Sampling personnel

- o Chris, Tim, Little, Keith

Description of catchment

Cover information

- o Concrete 100%

Potential constraints to property access

- o City R/W

Typical geometry and R/W section

- o 4 lane highway with 90 ft right of way with curb and gutter system

Run-on conditions

- o Run off from sidewalk, grass strip, and asphalt roadway

Reclaimed water application

- o N/A

Basic description of soil type

- o Urban Land-Hydro group D

Drainage appurtenances in the area

- o P3 and P4 catch basins

Significant features influencing PM, N, P load

- o Grass clippings, leaf debris, and litter

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Sediment trap, baffle box

Approximate age

- o ~8 years

Previous cleaning activity

- o November 2009

Condition

- o Floating debris with sediment and functional

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 4'x12' ft³, 6'1" W x 5'L x 8'D

Description of flow to BMP

- o Discharge from upstream

Description of sampling method

- o Composite grab with SS spoon

Traffic estimate (ADT)

- o 21,000

Approx. weight of recovered sample

- o 1950 g

Description of sample and COC

- o Moist, anthropogenic
- o COC provided on 07.27.2010



ADT	: average daily traffic
BMP	: best management practice
COC	: chain of custody
GNV	: Gainesville
H	: highway land use
N	: nitrogen
OUT	: outside reclaimed water area
P	: phosphorus
pdh	: previous dry hours
PM	: particulate matter
R/W	: right of way

FIELD INFORMATION - GAINESVILLE (GNV - BMP - H - OUT -3)

Sample identification

- o GNV - BMP - H - OUT -3

Jurisdiction

- o State of Florida

Land use zoning

- o Commercial

Location

- o 1800 SW 13th St

Co-ordinates

- o 29.634187, -82.339357

Date and time (with previous dry hours)

- o 08/20/2010 10:05 AM
- o pdh ~ 24

Sampling personnel

- o Chris, Vince

Description of catchment

Cover information

- o Concrete 90%, Grass 9%, Tree 1%

Potential constraints to property access

- o City R/W

Typical geometry and R/W section

- o 4 lane highway with 100 ft right of way with curb and gutter system

Run-on conditions

- o Run off from sidewalk, grass strip, and asphalt roadway

Reclaimed water application

- o SW

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o P3 and P4 catch basins

Significant features influencing PM, N, P load

- o Grass clippings

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Submerged, open ditch

Approximate age

- o ~30 years

Previous cleaning activity

- o Unknown

Condition

- o Open ditch with volunteer vegetation and litter

Condition of PM residuals

- o Moist

Dimensions and volume

- o 5'x10'x6"

Description of flow to BMP

- o Direct runoff

Description of sampling method

- o Composite grab with SS spoon

Traffic estimate (ADT)

- o 22,500

Approx. weight of recovered sample

- o 2225 g

Description of sample and COC

- o Moist, anthropogenic
- o COC provided on 07/23/2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
GNV : Gainesville
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV - BMP - R - OUT -1)

Sample identification

- o GNV - BMP - R - OUT -1

Jurisdiction

- o City of Gainesville

Land use zoning

- o Residential

Location

- o 1560 NW 29th Rd/NW 19th St

Co-ordinates

- o 29.679671, -82.342221

Date and time (with previous dry hours)

- o 07/16/2010 10:50 AM
- o pdh ~ 10

Sampling personnel

- o Chris, Tim, Keith

Description of catchment

Cover information

- o Concrete 100%

Potential constraints to property access

- o Residential (R)

Typical geometry and R/W section

- o 2 lane road with 40 ft R/W with a curb and gutter system

Run-on conditions

- o Run off from grass strip, and asphalt roadway

Reclaimed water application

- o N/A

Basic description of soil type

- o Kanapaha Soils – Hydrologic Group D

Drainage appurtenances in the area

- o P5 and P6 catch basins

Significant features influencing PM, N, P load

- o Wildlife living in BMP, floating debris with sediment

Predominant PM, N, and P sources

- o Biogenic

Description of BMP

Type

- o Vortech #11000 hydrodynamic separator

Approximate age

- o ~10 years

Previous cleaning activity

- o February 2010

Condition

- o Turtle and bat living in BMP floating debris with sediment

Condition of PM residuals

- o Moist

Dimensions and volume

- o 5'x4' 78 ft³

Description of flow to BMP

- o Discharge from upstream system

Description of sampling method

- o Composite grab with SS spoon

Traffic estimate (ADT)

- o 4600

Approx. weight of recovered sample

- o 2325 g

Description of sample and COC

- o Moist, biogenic
- o COC provided on 07/16/2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
GNV : Gainesville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV - BMP - R - OUT -2)

Sample identification

- o GNV - BMP - R - OUT -2

Jurisdiction

- o City of Gainesville

Land use zoning

- o Residential

Location

- o NE 8th Avenue and NE Boulevard

Co-ordinates

- o 29.659152, -82.321276

Date and time (with previous dry hours)

- o 07/22/2010 5:15 PM
- o pdh ~ 24

Sampling personnel

- o Chris, Little, Tim

Description of catchment

Cover information

- o Concrete 100%

Potential constraints to property access

- o City R/W Residential

Typical geometry and R/W section

- o 2 lane road with 60 ft right of way with a curb and gutter system

Run-on conditions

- o Run off from sidewalk, grass strip, and asphalt roadway

Reclaimed water application

- o N/A

Basic description of soil type

- o Millhopper – Hydro Group A

Drainage appurtenances in the area

- o P3 and P4 catch basins

Significant features influencing PM, N, P load

- o Grass clipping and leaf debris

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Hydrodynamic separator

Approximate age

- o ~8 years

Previous cleaning activity

- o November 2009

Condition

- o Floating debris with sediment and functional

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 4'x12' 5.6 ft³

Description of flow to BMP

- o Direct runoff

Description of sampling method

- o Composite grab with SS spoon

Traffic estimate (ADT)

- o 11469

Approx. weight of recovered sample

- o 3575 g

Description of sample and COC

- o Moist, anthropogenic
- o COC provided on 07.23.2010



ADT : average daily traffic

BMP : best management practice

COC : chain of custody

GNV : Gainesville

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV - BMP - R - OUT -3)

Sample identification

- o GNV - BMP - R - OUT -3

Jurisdiction

- o State of Florida

Land use zoning

- o Residential

Location

- o SW 10th Street/SW 8th Avenue

Co-ordinates

- o 29.646599, -82.333695

Date and time (with previous dry hours)

- o 08/10/2010 9:50 AM
- o pdh ~ 72

Sampling personnel

- o Chris, Vince

Description of catchment

Cover information

- o Concrete 1%, Grass 89%, Tree 10%

Potential constraints to property access

- o City R/W

Typical geometry and R/W section

- o 2 lane road with 40 ft right of way with a curb and gutter system

Run-on conditions

- o Run off from grass strip, and asphalt roadway

Reclaimed water application

- o SW

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o P3 and P4 catch basins

Significant features influencing PM, N, P load

- o Grass debris, leaf debris, and roadside litter

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Natural pond with floating and littoral vegetation

Approximate age

- o ~30 years

Previous cleaning activity

- o Unknown

Condition

- o Natural pond

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 4'x12' 5.6 ft³

Description of flow to BMP

- o Discharge from upstream stream

Description of sampling method

- o Composite grab with SS spoon

Traffic estimate (ADT)

- o 2069

Approx. weight of recovered sample

- o 2100 g

Description of sample and COC

- o Moist, anthropogenic
- o COC provided on 08.20.2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
GNV : Gainesville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV-CB-C-OUT-1)

Sample identification

- o GNV – CB – C – OUT – 1

Jurisdiction

- o Gainesville

Land use zoning

- o Commercial

Location

- o NW 29th Rd. and NW 13th St.

Co-ordinates

- o 29.679279 N and 82.342099 W

Date and time (with previous dry hours)

- o 7/16/2010 8:50 AM
- o pdh~8

Sampling personnel

- o Chris, Tim, Keith

Description of catchment

Cover information

- o 89% Pavement, 3% Concrete, 5% Grass, and 3% Tree

Potential constraints to property access

- o Commercial

Typical geometry and R/W section

- o 2-lane street with 40" right of way with curb and gutter system

Run-on conditions

- o Runoff from grass strip and asphalt roadway

Reclaimed water application

- o No

Basic description of soil type

- o Millhopper

Drainage appurtenances in the area

- o P-5 and P-6 CBs

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o P-6 inlet catch basin

Approximate age

- o 10 years

Previous cleaning activity

- o Cleaned Feb. 10

Condition

- o Minor sediment, otherwise functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 2.8 ft³

Description of flow to catch basin

- o Discharge from upstream stream

Description of sampling method

- o Composite grab with stainless steel spoon

Traffic estimate (ADT)

- o 4600

Approx. weight of recovered sample

- o 1825g

Description of sample and COC

- o Moist
- o COC provided on 07/16/2010



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
GNV : Gainesville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV-CB-C-OUT-2)

Sample identification

- o GNV – CB – C – OUT – 2

Jurisdiction

- o Gainesville

Land use zoning

- o Commercial

Location

- o NW 14th Ave. and N Main St.

Co-ordinates

- o 29.661964 N and 82.324591 W

Date and time (with previous dry hours)

- o 7/16/2010 3:00 PM
- o pdh~10

Sampling personnel

- o Chris, Tim, Keith

Description of catchment

Cover information

- o 85% Pavement, 8% Concrete, 5% Grass, and 2% Tree

Potential constraints to property access

- o FDOT R/W in commercial zone

Typical geometry and R/W section

- o 3-lane street with 85" right of way with curb and gutter system

Run-on conditions

- o Runoff from concrete sidewalk, grass strip and asphalt roadway

Reclaimed water application

- o No

Basic description of soil type

- o Wauchula – Hydro group D

Drainage appurtenances in the area

- o P-3 and P-4 CBs

Significant features influencing PM, N, P load

- o Grass clipping and roadside litter

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o P-3 curb inlet catch basin

Approximate age

- o 10 years

Previous cleaning activity

- o Cleaned Feb. 10

Condition

- o Minor sediment, otherwise functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 2.8 ft³

Description of flow to catch basin

- o Direct runoff from road

Description of sampling method

- o Composite grab with stainless steel spoon

Traffic estimate (ADT)

- o 16694

Approx. weight of recovered sample

- o 2300g

Description of sample and COC

- o Moist
- o COC provided on 07/16/2010



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
GNV : Gainesville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV-CB-C-OUT-3)

Sample identification

- o GNV – CB – C – OUT – 3

Jurisdiction

- o Gainesville

Land use zoning

- o Business/Commercial

Location

- o SW 6th St. and SW 5th Ave.

Co-ordinates

- o 29.647239 N and 82.331539 W

Date and time (with previous dry hours)

- o 7/16/2010 2:15 PM
- o pdh~48

Sampling personnel

- o Chris, Tim, Keith

Description of catchment

Cover information

- o 85% Pavement, 8% Concrete, 5% Grass, and 2% Tree

Potential constraints to property access

- o FDOT R/W in commercial zone

Typical geometry and R/W section

- o 3-lane street with 40" right of way with curb and gutter system

Run-on conditions

- o Runoff from sidewalk, grass strip and asphalt roadway

Reclaimed water application

- o No

Basic description of soil type

- o Urban land – Hydro group D

Drainage appurtenances in the area

- o P-3 and P-4 CBs

Significant features influencing PM, N, P load

- o Grass clipping, leaf debris, and roadside litter

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o P-4 curb inlet catch basin

Approximate age

- o 15 years

Previous cleaning activity

- o Cleaned Mar. 10

Condition

- o Minor sediment, otherwise functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 4' x 3', 1.4 ft³

Description of flow to catch basin

- o Discharge from upstream stream

Description of sampling method

- o Composite grab with stainless steel spoon

Traffic estimate (ADT)

- o 6074

Approx. weight of recovered sample

- o 1300g

Description of sample and COC

- o Moist
- o COC provided on 07/23/2010



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
GNV : Gainesville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV-CB-H-OUT-1)

Sample identification

- o GNV – CB – H – OUT – 1

Jurisdiction

- o State

Land use zoning

- o Highway

Location

- o NW 83rd St. and NW 39th Ave.

Co-ordinates

- o 29.688952 N and 82.430745 W

Date and time (with previous dry hours)

- o 7/29/2010 9:30 AM
- o pdh~192

Sampling personnel

- o Chris, Tim, and Little

Description of catchment

Cover information

- o 85% Pavement, 8% Concrete, 6% Grass, and 1% Tree

Potential constraints to property access

- o FDOT R/W

Typical geometry and R/W section

- o 4-lane street and 25' median with 110' right of way with curb and gutter system

Run-on conditions

- o Runoff from sidewalk, grass strip, and asphalt roadway

Reclaimed water application

- o Yes

Basic description of soil type

- o Lochloosa – Hydro C

Drainage appurtenances in the area

- o P-5 and P-6 CBs

Significant features influencing PM, N, P load

- o Grass clipping and leaf debris

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o P-6 inlet catch basin

Approximate age

- o 15 years

Previous cleaning activity

- o Unknown

Condition

- o Minor sediment, otherwise functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 5.6 ft³

Description of flow to catch basin

- o Runoff from highway

Description of sampling method

- o Composite grab with stainless steel spoon

Traffic estimate (ADT)

- o 28000

Approx. weight of recovered sample

- o 1800g

Description of sample and COC

- o Moist
- o COC provided on 07.29.2010



ADT : average daily traffic

CB : catch basin

COC : chain of custody

GNV : Gainesville

H : highway land use

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV-CB-H-OUT-2)

Sample identification

- o GNV – CB – H – OUT – 2

Jurisdiction

- o State

Land use zoning

- o Highway

Location

- o E University Ave. and NE 5th St.

Co-ordinates

- o 29.651874 N and 82.320762 W

Date and time (with previous dry hours)

- o 7/27/2010 10:30 AM

- o pdh~144

Sampling personnel

- o Chris, Tim, Keith, and Little

Description of catchment

Cover information

- o 88% Pavement, 3% Concrete, 2% Grass, and 7% Tree

Potential constraints to property access

- o FDOT R/W

Typical geometry and R/W section

- o 4-lane highway with 90' right of way with curb and gutter system

Run-on conditions

- o Runoff from sidewalk, grass strip, and asphalt roadway

Reclaimed water application

- o No

Basic description of soil type

- o Urban land – Hydro group D

Drainage appurtenances in the area

- o P-3 and P-4 CBs

Significant features influencing PM, N, P load

- o Grass clipping, leaf debris, and roadside litter

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o P-4 curb inlet catch basin

Approximate age

- o 25 years

Previous cleaning activity

- o Unknown

Condition

- o Minor sediment, otherwise functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 4' x 12', 5.6 ft³

Description of flow to catch basin

- o Direct runoff

Description of sampling method

- o Composite grab with stainless steel spoon

Traffic estimate (ADT)

- o 21000

Approx. weight of recovered sample

- o 3625g

Description of sample and COC

- o Moist
- o COC provided on 07/23/2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
GNV : Gainesville
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV-CB-H-OUT-3)

Sample identification

- o GNV – CB – H – OUT – 3

Jurisdiction

- o State

Land use zoning

- o Commercial

Location

- o 1800 SW 13th St.

Co-ordinates

- o 29.634187 N and 82.339357 W

Date and time (with previous dry hours)

- o 7/22/2010 2:30 PM
- o pdh~24

Sampling personnel

- o Chris, Tim, and Little

Description of catchment

Cover information

- o 90% Pavement, 3% Concrete, 6% Grass, and 1% Tree

Potential constraints to property access

- o FDOT R/W

Typical geometry and R/W section

- o 4-lane highway with 135' right of way

Run-on conditions

- o Runoff from sidewalk, grass strip, and asphalt roadway

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Surface grate

Significant features influencing PM, N, P load

- o Grass clipping

Predominant PM, N, and P sources

- o Biogenic

Description of catch basin

Type

- o Surface grate

Approximate age

- o 20 years

Previous cleaning activity

- o Unknown

Condition

- o Minor sediment, otherwise functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 5.6 ft³

Description of flow to catch basin

- o Direct runoff

Description of sampling method

- o Composite grab with stainless steel spoon

Traffic estimate (ADT)

- o 22500

Approx. weight of recovered sample

- o 2725g

Description of sample and COC

- o Moist
- o COC provided on 07/23/2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
GNV : Gainesville
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV-CB-R-OUT-1)

Sample identification

- o GNV – CB – R – OUT – 1

Jurisdiction

- o Gainesville

Land use zoning

- o Residential

Location

- o 1560 NW 29th Rd. and NW 19th St.

Co-ordinates

- o 29.680031 N and 82.343033 W

Date and time (with previous dry hours)

- o 7/16/2010 1:40 PM
- o pdh~12

Sampling personnel

- o Chris, Tim, Keith

Description of catchment

Cover information

- o 89% Pavement, 3% Concrete, 5% Grass, and 3% Tree

Potential constraints to property access

- o Public residential

Typical geometry and R/W section

- o 2-lane street with 40" right of way with curb and gutter system

Run-on conditions

- o Runoff from grass strip and asphalt roadway

Reclaimed water application

- o No

Basic description of soil type

- o Kanapaha soils – Hydrologic group D

Drainage appurtenances in the area

- o P-5 and P-6 CBs

Significant features influencing PM, N, P load

- o Grass clippings and leaf debris

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o P-5 curb inlet catch basin

Approximate age

- o 10 years

Previous cleaning activity

- o Cleaned Feb. 10

Condition

- o Minor sediment, otherwise functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 2.8 ft³

Description of flow to catch basin

- o Discharge from upstream stream

Description of sampling method

- o Composite grab with stainless steel spoon

Traffic estimate (ADT)

- o 4600

Approx. weight of recovered sample

- o 925g

Description of sample and COC

- o Moist
- o COC provided on 07/16/2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
GNV : Gainesville
R : residential land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV-CB-R-OUT-2)

Sample identification

- o GNV – CB – R – OUT – 2

Jurisdiction

- o Gainesville

Land use zoning

- o Residential

Location

- o NE 8th Ave. and NE 4th St.

Co-ordinates

- o 29.659175 N and 82.321562 W

Date and time (with previous dry hours)

- o 7/22/2010 1:20 PM
- o pdh~24

Sampling personnel

- o Chris, Tim, Little

Description of catchment

Cover information

- o 87% Pavement, 4% Concrete, 3% Grass, and 6% Tree

Potential constraints to property access

- o City R/W residential

Typical geometry and R/W section

- o 2-lane street with 60" right of way with curb and gutter system

Run-on conditions

- o Runoff from sidewalk, grass strip and asphalt roadway

Reclaimed water application

- o No

Basic description of soil type

- o Millhopper – Hydrologic group A

Drainage appurtenances in the area

- o P-3 and P-4 CBs

Significant features influencing PM, N, P load

- o Grass clippings and leaf debris

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o P-4 curb inlet catch basin

Approximate age

- o 20 years

Previous cleaning activity

- o Cleaned Mar. 10

Condition

- o Minor sediment, otherwise functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 4' x 3', 12 ft³

Description of flow to catch basin

- o Direct runoff

Description of sampling method

- o Composite grab with stainless steel spoon

Traffic estimate (ADT)

- o 11469

Approx. weight of recovered sample

- o 290g

Description of sample and COC

- o Dry
- o COC provided on 07/23/2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
GNV : Gainesville
R : residential land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV-CB-R-OUT-3)

Sample identification

- o GNV – CB – R – OUT – 3

Jurisdiction

- o Gainesville

Land use zoning

- o Residential

Location

- o SW 6th Ave. and SW 9th St.

Co-ordinates

- o 29.646599 N and 82.333695 W

Date and time (with previous dry hours)

- o 7/22/2010 2:10 PM
- o pdh~24

Sampling personnel

- o Chris, Tim, Little

Description of catchment

Cover information

- o 90% Pavement, 1% Concrete, 4% Grass, and 5% Tree

Potential constraints to property access

- o City R/W residential

Typical geometry and R/W section

- o 2-lane street with 40" right of way with curb and gutter system

Run-on conditions

- o Runoff from grass strip and asphalt roadway

Reclaimed water application

- o No

Basic description of soil type

- o Urban land – Hydrologic group D

Drainage appurtenances in the area

- o P-3 and P-4 CBs

Significant features influencing PM, N, P load

- o Grass clippings, leaf debris, and roadside litter

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o P-4 curb inlet catch basin

Approximate age

- o 20 years

Previous cleaning activity

- o Cleaned Dec. 9

Condition

- o Minor sediment, otherwise functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 2.8 ft³

Description of flow to catch basin

- o Discharge from upstream stream

Description of sampling method

- o Composite grab with stainless steel spoon

Traffic estimate (ADT)

- o 2069

Approx. weight of recovered sample

- o 2175g

Description of sample and COC

- o Moist
- o COC provided on 07.23.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
GNV : Gainesville
R : residential land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV - SS - C - OUT - 1)

Sample ID

- o GNV – SS – C – OUT – 1

Jurisdiction

- o Gainesville

Land Use Zoning

- o Commercial

Location

- o NW 29th Rd/NW 13th St

Co-ordinates

- o 29.679279, -82.342099

Date and Time (with Previous Dry Hours)

- o 07/23/2010 8:30 AM
- o ~48

Sampling Personnel

- o Chris, Tim, Keith

Description of Catchment

Pavement Type

- o Concrete curb and gutter with asphalt roadway, slope 0.02, good, 10 years

Typical Geometry and R/W Section

- o 2 lane road with 40 ft R/W with a curb and gutter system

Run-on Conditions

- o Run on from a grass strip, and asphalt roadway

Drainage Appurtenances in the Catchment Area

- o P5 and P6 catch basin

Significant Features that may affect PM, N and P loadings

- o Grass clipping and leaf debris, 1026 lbs/mile

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Allianz, 4000, mechanical, 2005.

Dimensions of Area Cleaned

- o 2,355 feet of 35 ft wide pavement

Previous Cleaning Activity

- o 07.07.2010

Traffic Estimate (ADT)

- o 4,600

Approx. Weight of Recovered Sample

- o ~1750 g.

Description of Sample and COC

- o Moist
- o COC provided on 07/23/2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
GNV : Gainesville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - GAINESVILLE (GNV - SS - C - OUT - 2)

Sample ID

- o GNV – SS – C – OUT – 2

Jurisdiction

- o Gainesville

Land Use Zoning

- o Commercial

Location

- o NW 14th Ave/N Main St

Co-ordinates

- o 29.661964, -82.324591

Date and Time (with Previous Dry Hours)

- o 07/23/2010 9:00 AM
- o ~48

Sampling Personnel

- o Chris, Tim, Keith

Description of Catchment

Pavement Type

- o Concrete curb and gutter with asphalt roadway, slope 0.004, good, 1 year

Typical Geometry and R/W Section

- o 3 lane road with 85 ft R/W with a curb and gutter system

Run-on Conditions

- o Run on from concrete sidewalk, grass strip, and asphalt roadway

Drainage Appurtenances in the Catchment Area

- o P3 and P4 catch basin

Significant Features that may affect PM, N and P loadings

- o Grass clipping and leaf debris, 831 lbs/mile

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Allianz, 4000, mechanical, 2005.

Dimensions of Area Cleaned

- o 665 feet of 40 ft road

Previous Cleaning Activity

- o 07.07.2010

Traffic Estimate (ADT)

- o 16,694

Approx. Weight of Recovered Sample

- o ~2675 g.

Description of Sample and COC

- o Moist
- o COC provided on 07.23.2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
GNV : Gainesville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - GAINESVILLE (GNV - SS - C - OUT - 3)

Sample ID

- o GNV – SS – C – OUT – 3

Jurisdiction

- o Gainesville

Land Use Zoning

- o Commercial

Location

- o SW 6th St and SW 5th Ave

Co-ordinates

- o 29.647340, -82.331266

Date and Time (with Previous Dry Hours)

- o 07/23/2010 9:30 AM
- o ~48

Sampling Personnel

- o Chris, Tim, Keith

Description of Catchment

Pavement Type

- o Concrete curb and gutter with asphalt roadway, slope 0.094, fair, 15 years

Typical Geometry and R/W Section

- o City R/W

Run-on Conditions

- o Run on from concrete sidewalk, grass strip, and asphalt roadway

Drainage Appurtenances in the Catchment Area

- o P3 and P4 catch basin

Significant Features that may affect PM, N and P loadings

- o Grass clipping and leaf debris, 831 lbs/mile

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Allianz, 4000, mechanical, 2005.

Dimensions of Area Cleaned

- o 1938 feet of 60 ft City R/W

Previous Cleaning Activity

- o 07.08.2010

Traffic Estimate (ADT)

- o 6074

Approx. Weight of Recovered Sample

- o ~2150 g.

Description of Sample and COC

- o Moist
- o COC provided on 07.23.2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
GNV : Gainesville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - GAINESVILLE (GNV - SS - H - OUT - 1)

Sample ID

- o GNV – SS – H – OUT – 1

Jurisdiction

- o Gainesville

Land Use Zoning

- o Highway

Location

- o NW 83rd St/NW 39th Ave

Co-ordinates

- o 29.688952, -82.430745

Date and Time (with Previous Dry Hours)

- o 07/23/2010 1:45 PM
- o ~48

Sampling Personnel

- o Chris, Tim, Keith

Description of Catchment

Pavement Type

- o Concrete curb and gutter with asphalt roadway, slope 0.025, good, 2 years

Typical Geometry and R/W Section

- o 4 lane road with 25 foot median, 110 ft right of way, and curb and gutter drainage system

Run-on Conditions

- o Run on from concrete sidewalk, grass strip, and asphalt roadway

Drainage Appurtenances in the Catchment Area

- o P5 and P6 catch basin

Significant Features that may affect PM, N and P loadings

- o Grass clipping and leaf debris, 831 lbs/mile

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Allianz, 4000, mechanical, 2005.

Dimensions of Area Cleaned

- o 1,152 feet of 100 ft wide pavement

Previous Cleaning Activity

- o August 2009

Traffic Estimate (ADT)

- o 28,000

Approx. Weight of Recovered Sample

- o ~925 g.

Description of Sample and COC

- o Moist
- o COC provided on 07.23.2010



ADT : average daily traffic

COC : chain of custody

GNV : Gainesville

H : highway land use

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

SS : street sweeping

FIELD INFORMATION - GAINESVILLE (GNV - SS - H - OUT - 2)

Sample ID

- o GNV – SS – H – OUT – 2

Jurisdiction

- o Gainesville

Land Use Zoning

- o Highway

Location

- o E University Ave/NE 5th St

Co-ordinates

- o 29.651970, -82.321442

Date and Time (with Previous Dry Hours)

- o 08/5/2010 8:30 AM
- o ~48

Sampling Personnel

- o Chris and Johnny

Description of Catchment

Pavement Type

- o Concrete curb and gutter with asphalt roadway, slope 0.036, good, 3 years

Typical Geometry and R/W Section

- o 4 lane road with 90 foot R/W and a curb and gutter system

Run-on Conditions

- o Run on from concrete sidewalk, grass strip, and asphalt roadway

Drainage Appurtenances in the Catchment Area

- o P3 and P4 catch basins

Significant Features that may affect PM, N and P loadings

- o Leaf debris, 1026 lbs/mile

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Allianz, 4000, mechanical, 2005.

Dimensions of Area Cleaned

- o 309 feet of 60 ft wide highway

Previous Cleaning Activity

- o 07.27.2010

Traffic Estimate (ADT)

- o 21,000

Approx. Weight of Recovered Sample

- o ~2200 g.

Description of Sample and COC

- o Moist
- o COC provided on 08.05.2010



ADT : average daily traffic
COC : chain of custody
GNV : Gainesville
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - GAINESVILLE (GNV - SS - H - OUT - 3)

Sample ID

- o GNV – SS – H – OUT – 3

Jurisdiction

- o Gainesville

Land Use Zoning

- o Highway

Location

- o 1600 SW 13th Street

Co-ordinates

- o 29.635332, -82.33960

Date and Time (with Previous Dry Hours)

- o 07/23/2010 10:15 AM
- o ~48

Sampling Personnel

- o Chris, Tim, and Keith

Description of Catchment

Pavement Type

- o Concrete curb and gutter with asphalt roadway, slope 0.023, good, 1 year

Typical Geometry and R/W Section

- o Public road commercial use

Run-on Conditions

- o Run on from concrete sidewalk, grass strip, and asphalt roadway

Drainage Appurtenances in the Catchment Area

- o Curb and gutter swale median

Significant Features that may affect PM, N and P loadings

- o Grass clipping and litter, 831 lbs/mile

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o Sand

Description of Sweeping Equipment

- o Allianz, 4000, mechanical, 2005.

Dimensions of Area Cleaned

- o 343 feet of 4 lane FDOT R/W

Previous Cleaning Activity

- o 07.13.2010

Traffic Estimate (ADT)

- o 22,500

Approx. Weight of Recovered Sample

- o ~1125 g.

Description of Sample and COC

- o Moist
- o COC provided on 07.27.2010



ADT : average daily traffic
COC : chain of custody
GNV : Gainesville
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - GAINESVILLE (GNV - SS - R - OUT - 1)

Sample ID

- o GNV – SS – R – OUT – 1

Jurisdiction

- o Gainesville

Land Use Zoning

- o Residential

Location

- o 1560 NW 29th Rd/NW 19th St

Co-ordinates

- o 29.680031, -82.343033

Date and Time (with Previous Dry Hours)

- o 07/23/2010 8:45 AM
- o ~48

Sampling Personnel

- o Chris, Tim, Keith

Description of Catchment

Pavement Type

- o Concrete curb and gutter with asphalt roadway, slope 0.02, good, 10 years

Typical Geometry and R/W Section

- o 2 lane road with 40 ft R/W with a curb and gutter system

Run-on Conditions

- o Run on from a grass strip, and asphalt roadway

Drainage Appurtenances in the Catchment Area

- o P5 and P6 catch basin

Significant Features that may affect PM, N and P loadings

- o Grass clipping and leaf debris, 923 lbs/mile

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Allianz, 4000, mechanical, 2005.

Dimensions of Area Cleaned

- o 1,627 feet of 35 ft wide pavement

Previous Cleaning Activity

- o 07.07.2010

Traffic Estimate (ADT)

- o 4,600

Approx. Weight of Recovered Sample

- o ~2025 g.

Description of Sample and COC

- o Moist
- o COC provided on 07.23.2010



ADT : average daily traffic
R : residential land use
COC : chain of custody
GNV : Gainesville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - GAINESVILLE (GNV - SS - R - OUT - 2)

Sample ID

- o GNV – SS – R – OUT – 2

Jurisdiction

- o Gainesville

Land Use Zoning

- o Residential

Location

- o NE 8th Ave/NE 4th St

Co-ordinates

- o 29.659175, -82.321562

Date and Time (with Previous Dry Hours)

- o 08/5/2010 9:00 AM
- o ~48

Sampling Personnel

- o Chris and Johnny

Description of Catchment

Pavement Type

- o Concrete curb and gutter with asphalt roadway, slope 0.07, good, 2 years

Typical Geometry and R/W Section

- o 2 lane road with 60 ft R/W with a curb and gutter system

Run-on Conditions

- o Run on from concrete sidewalk, grass strip, and asphalt roadway

Drainage Appurtenances in the Catchment Area

- o P3 and P4 curb inlets

Significant Features that may affect PM, N and P loadings

- o Grass clipping and leaf debris, 1026 lbs/mile

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Allianz, 4000, mechanical, 2005.

Dimensions of Area Cleaned

- o 1,080 feet of 40 ft road

Previous Cleaning Activity

- o 08.03.2010

Traffic Estimate (ADT)

- o 11,469

Approx. Weight of Recovered Sample

- o ~1275 g.

Description of Sample and COC

- o Moist
- o COC provided on 08.05.2010



ADT : average daily traffic
COC : chain of custody
GNV : Gainesville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
R : residential land use
SS : street sweeping

FIELD INFORMATION - GAINESVILLE (GNV - SS - R - OUT - 3)

Sample ID

- o GNV – SS – R – OUT – 3

Jurisdiction

- o Gainesville

Land Use Zoning

- o Residential

Location

- o SW 10th St & SW 6 Ave

Co-ordinates

- o 29.646706, -82.334449

Date and Time (with Previous Dry Hours)

- o 07/23/2010 9:45 AM
- o ~48

Sampling Personnel

- o Chris, Tim, and Ketih

Description of Catchment

Pavement Type

- o Concrete curb and gutter with asphalt roadway, slope 0.023, good, 1 year

Typical Geometry and R/W Section

- o City R/W

Run-on Conditions

- o Run on from concrete sidewalk, grass strip, and asphalt roadway

Drainage Appurtenances in the Catchment Area

- o P3 and P4 catch basins

Significant Features that may affect PM, N and P loadings

- o Grass clipping and leaf debris, 1026 lbs/mile

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Allianz, 4000, mechanical, 2005.

Dimensions of Area Cleaned

- o 1,480 feet of 40 ft City R/W

Previous Cleaning Activity

- o 07.08.2010

Traffic Estimate (ADT)

- o 2069

Approx. Weight of Recovered Sample

- o ~1525 g.

Description of Sample and COC

- o Moist
- o COC provided on 07.23.2010



ADT : average daily traffic
COC : chain of custody
GNV : Gainesville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
R : residential land use
SS : street sweeping

FIELD INFORMATION - GAINESVILLE (GNV - BMP - C - IN -1)

Sample identification

- o GNV - BMP - C - IN -1

Jurisdiction

- o Alachua County

Land use zoning

- o Commercial

Location

- o 5100 SW 91 Ct

Co-ordinates

- o 29.36, -82.26

Date and time (with previous dry hours)

- o 08/20/2010 2:00PM

- o pdh ~ 36

Sampling personnel

- o Chris & Vance

Description of catchment

Cover information

- o Concrete 1%, Grass 93%, Tree 6%

Potential constraints to property access

- o R/W

Typical geometry and R/W section

- o N/A

Run-on conditions

- o ROW and yards (area to building setback) are grassed and drain to asphalt roadway that drains to inlet

Reclaimed water application

- o N/A

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o P3 and P4 catch basin

Significant features influencing PM, N, P load

- o Grass clipping and leaf debris

Predominant PM, N, and P sources

- o Biogenic

Description of BMP

Type

- o Catch basin

Approximate age

- o ~15 years

Previous cleaning activity

- o April 2009

Condition

- o Natural retention area surrounded by vegetation

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 4'x6'x2'

Description of flow to BMP

- o Discharge from upstream

Description of sampling method

- o Composite grab with SS spoon

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o 2150 g

Description of sample and COC

- o Wet, biogenic
- o COC provided on site



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
GNV : Gainesville
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV - BMP - C - IN -2)

Sample identification

- o GNV - BMP - C - IN -2

Jurisdiction

- o State of Florida

Land use zoning

- o Commercial

Location

- o Museum Rd and Reitz Union Drive

Co-ordinates

- o 29.38, -82.20

Date and time (with previous dry hours)

- o 08/20/2010 3:15PM
- o pdh ~ 36

Sampling personnel

- o Chris & Vance

Description of catchment

Cover information

- o Concrete 1%, Grass 79%, Tree 20%

Potential constraints to property access

- o R/W

Typical geometry and R/W section

- o 2 lane and median with 55' R/W including curb and gutter system

Run-on conditions

- o ROW and yards (area to building setback) are grassed and drain to asphalt roadway that drains to inlet

Reclaimed water application

- o SW and Reclaimed Water

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o P3 and P4 catch basin

Significant features influencing PM, N, P load

- o Grass clipping and leaf debris

Predominant PM, N, and P sources

- o Biogenic

Description of BMP

Type

- o Catch basin, Open Retention Basin

Approximate age

- o ~30 years

Previous cleaning activity

- o Unknown

Condition

- o Natural retention area surrounded by vegetation

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 50'x80'x5'

Description of flow to BMP

- o Discharge from upstream

Description of sampling method

- o Composite grab with SS spoon

Traffic estimate (ADT)

- o 11,245

Approx. weight of recovered sample

- o 2650 g

Description of sample and COC

- o Wet, biogenic
- o COC provided on site



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
GNV : Gainesville
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV - BMP - C - IN -3)

Sample identification

- o GNV - BMP - C - IN -3

Jurisdiction

- o State of Florida

Land use zoning

- o Commercial

Location

- o North-South Drice & Mowry Rd

Co-ordinates

- o 29.38, -82.20

Date and time (with previous dry hours)

- o 08/20/2010 3:30PM
- o pdh ~ 36

Sampling personnel

- o Chris & Vance

Description of catchment

Cover information

- o Concrete 1%, Grass 79%, Tree 20%

Potential constraints to property access

- o R/W

Typical geometry and R/W section

- o 5 lane with 60' R/W including curb and gutter system

Run-on conditions

- o ROW and yards (area to building setback) are grassed and drain to asphalt roadway that drains to inlet

Reclaimed water application

- o SW and Reclaimed Water

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o P3 and P4 catch basin

Significant features influencing PM, N, P load

- o Grass clipping and leaf debris

Predominant PM, N, and P sources

- o Biogenic

Description of BMP

Type

- o Catch basin, Open Retention Basin

Approximate age

- o ~30 years

Previous cleaning activity

- o Unknown

Condition

- o Natural retention area surrounded by vegetation

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 50'x80'x5'

Description of flow to BMP

- o Discharge from upstream

Description of sampling method

- o Composite grab with SS spoon

Traffic estimate (ADT)

- o 15,981

Approx. weight of recovered sample

- o 2300 g

Description of sample and COC

- o Wet, biogenic
- o COC provided on site



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
GNV : Gainesville
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV - BMP - H - IN -1)

Sample identification

- o GNV - BMP - H - IN -1

Jurisdiction

- o State of Florida

Land use zoning

- o Highway

Location

- o 2000 W University Avenue

Co-ordinates

- o 29.38, -82.21

Date and time (with previous dry hours)

- o 08/20/2010 9:00AM

- o pdh ~ 36

Sampling personnel

- o Chris & Vance

Description of catchment

Cover information

- o Concrete 1%, Grass 79%, Tree 20%

Potential constraints to property access

- o FDOT R/W

Typical geometry and R/W section

- o 5 lane street with 80 ft right of way with curb and gutter system

Run-on conditions

- o Runoff

Reclaimed water application

- o SW and Reclaimed Water

Basic description of soil type

- o Urban Land-Hydro group D

Drainage appurtenances in the area

- o P3 and P4 catch basin

Significant features influencing PM, N, P load

- o Grass debris, leaf debris, roadside litter

Predominant PM, N, and P sources

- o Biogenic

Description of BMP

Type

- o Natural pond

Approximate age

- o ~30 years

Previous cleaning activity

- o Unknown

Condition

- o Open pond with vegetative cover

Condition of PM residuals

- o Moist

Dimensions and volume

- o 30'x50'x3'

Description of flow to BMP

- o Discharge from upstream

Description of sampling method

- o Composite grab with SS spoon

Traffic estimate (ADT)

- o 23,500

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist, biogenic
- o COC provided on 11/03/2010



ADT : average daily traffic

BMP : best management practice

COC : chain of custody

GNV : Gainesville

H : highway land use

IN : inside reclaimed water area

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV - BMP - H - IN -2)

Sample identification

- o GNV - BMP - H - IN -2

Jurisdiction

- o State of Florida

Land use zoning

- o Highway

Location

- o 800 SW 13th Street

Co-ordinates

- o 29 38.711, -82 20.405

Date and time (with previous dry hours)

- o 08/20/2010 9:40AM

- o pdh ~ 36

Sampling personnel

- o Chris & Vance

Description of catchment

Cover information

- o Concrete 1%, Grass 98%, Tree 1%

Potential constraints to property access

- o FDOT R/W

Typical geometry and R/W section

- o 4 lane and median with 95' R/W including curb and gutter system

Run-on conditions

- o Runoff

Reclaimed water application

- o SW and Reclaimed Water

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o P3 and P4 catch basin

Significant features influencing PM, N, P load

- o Grass debris, leaf debris, litter

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Open ditch

Approximate age

- o ~30 years

Previous cleaning activity

- o Unknown

Condition

- o Open ditch with vegetative cover

Condition of PM residuals

- o Moist

Dimensions and volume

- o 6'x15'x2'

Description of flow to BMP

- o Discharge from upstream

Description of sampling method

- o Composite grab with SS spoon

Traffic estimate (ADT)

- o 33,000

Approx. weight of recovered sample

- o 2100 g

Description of sample and COC

- o Moist, anthropogenic

- o COC provided on 08/20/2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
GNV : Gainesville
H : highway land use
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV - BMP - H - IN -3)

Sample identification

- o GNV - BMP - H - IN -3

Jurisdiction

- o State of Florida

Land use zoning

- o Highway

Location

- o 2000 SW Archer Rd

Co-ordinates

- o 29 38.159, -82 21.236

Date and time (with previous dry hours)

- o 08/20/2010 10:40AM
- o pdh ~ 36

Sampling personnel

- o Chris & Vance

Description of catchment

Cover information

- o Concrete 1%, Grass 98%, Tree 1%

Potential constraints to property access

- o FDOT R/W

Typical geometry and R/W section

- o 4 lane and median with 100' R/W including curb and gutter system

Run-on conditions

- o ROW and yards (area to building setback) are grassed and drain to asphalt roadway that drains to inlet

Reclaimed water application

- o SW and Reclaimed Water

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o P3 and P4 catch basin

Significant features influencing PM, N, P load

- o Grass debris, leaf debris, litter

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Open ditch

Approximate age

- o ~30 years

Previous cleaning activity

- o Unknown

Condition

- o Open ditch with volunteer vegetation in sediment

Condition of PM residuals

- o Moist

Dimensions and volume

- o 8'x10'x2'

Description of flow to BMP

- o Discharge from upstream

Description of sampling method

- o Composite grab with SS spoon

Traffic estimate (ADT)

- o 30,000

Approx. weight of recovered sample

- o 2400 g

Description of sample and COC

- o Moist, anthropogenic
- o COC provided on 08/20/2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
GNV : Gainesville
H : highway land use
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV - BMP - R - IN -1)

Sample identification

- o GNV - BMP - R - IN -1

Jurisdiction

- o Alachua County

Land use zoning

- o Residential

Location

- o 8300 SW 11th Rd

Co-ordinates

- o 29.640400, -82.431473

Date and time (with previous dry hours)

- o 07/27/2010 1:36PM
- o pdh ~ 168

Sampling personnel

- o Tim, Keith, Little, Tommy

Description of catchment

Cover information

- o Concrete 1%, Grass 92%, Tree 7%

Potential constraints to property access

- o County R/W

Typical geometry and R/W section

- o 2 lane street with 30 ft right of way with curb and gutter system

Run-on conditions

- o Run off ROW and yards (area to building setback) are grassed and drain to asphalt roadway that drains to inlet

Reclaimed water application

- o SW and Reclaimed Water

Basic description of soil type

- o Urban Land-Hydro group D

Drainage appurtenances in the area

- o P3 and P4 catch basin

Significant features influencing PM, N, P load

- o Grass clippings

Predominant PM, N, and P sources

- o Biogenic

Description of BMP

Type

- o Retention basin

Approximate age

- o ~8 years

Previous cleaning activity

- o 2002

Condition

- o Mowed basin with submerged forebay area

Condition of PM residuals

- o Submerged

Dimensions and volume

- o Forebay, 5'x10'x1'

Description of flow to BMP

- o Discharge from upstream

Description of sampling method

- o Composite grab with SS spoon

Traffic estimate (ADT)

- o 30,000

Approx. weight of recovered sample

- o 1950 g

Description of sample and COC

- o Moist, biogenic
- o COC provided on 07/23/2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
GNV : Gainesville
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV - BMP - R - IN -2)

Sample identification

- o GNV - BMP - R - IN -2

Jurisdiction

- o Alachua County

Land use zoning

- o Residential

Location

- o 8500 SW 10th Ave

Co-ordinates

- o 29.643230, -82.432730

Date and time (with previous dry hours)

- o 07/27/2010 2:00PM
- o pdh ~ 144

Sampling personnel

- o Tim, Keith, Little, Tommy

Description of catchment

Cover information

- o Concrete 1%, Grass 92%, Tree 7%

Potential constraints to property access

- o County R/W

Typical geometry and R/W section

- o 2 lane street with 30 ft right of way with curb and gutter system

Run-on conditions

- o Run off ROW and yards (area to building setback) are grassed and drain to asphalt roadway that drains to inlet

Reclaimed water application

- o SW and Reclaimed Water

Basic description of soil type

- o Urban Land-Hydro group D

Drainage appurtenances in the area

- o P3 and P4 catch basin

Significant features influencing PM, N, P load

- o Grass clippings

Predominant PM, N, and P sources

- o Biogenic

Description of BMP

Type

- o Retention basin

Approximate age

- o ~8 years

Previous cleaning activity

- o 2002

Condition

- o Mowed basin with submerged forebay area

Condition of PM residuals

- o Submerged

Dimensions and volume

- o Forebay, 4'x6'x1'

Description of flow to BMP

- o Discharge from upstream

Description of sampling method

- o Composite grab with SS spoon

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o 2100 g

Description of sample and COC

- o Moist, biogenic
- o COC provided on 07/23/2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
GNV : Gainesville
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV - BMP - R - IN -3)

Sample identification

- o GNV - BMP - R - IN -3

Jurisdiction

- o Alachua County

Land use zoning

- o Residential

Location

- o 3913 SW 89 Dr

Co-ordinates

- o 29.618630, -82.437027

Date and time (with previous dry hours)

- o 07/28/2010 8:30 AM
- o pdh ~ 168

Sampling personnel

- o Tim, Keith, Little, Tommy

Description of catchment

Cover information

- o Concrete 1%, Grass 92%, Tree 7%

Potential constraints to property access

- o County R/W

Typical geometry and R/W section

- o 2 lane street with 30 ft right of way with curb and gutter system

Run-on conditions

- o ROW and yards (area to building setback) are grassed and drain to asphalt roadway that drains to inlet

Reclaimed water application

- o SW and Reclaimed Water

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o P3 and P4 catch basin

Significant features influencing PM, N, P load

- o Grass clippings

Predominant PM, N, and P sources

- o Biogenic

Description of BMP

Type

- o Retention basin

Approximate age

- o ~8 years

Previous cleaning activity

- o 2002

Condition

- o Mowed basin with submerged forebay area

Condition of PM residuals

- o Submerged

Dimensions and volume

- o Forebay, 4'x9'x1'

Description of flow to BMP

- o Discharge from upstream

Description of sampling method

- o Composite grab with SS spoon

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o 1075 g

Description of sample and COC

- o Moist, biogenic
- o COC provided on 07/23/2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
GNV : Gainesville
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV-CB-C-IN-1)

Sample identification

- o GNV – CB – C – IN – 1

Jurisdiction

- o Gainesville

Land use zoning

- o Commercial

Location

- o 5100 SW 91st Ct.

Co-ordinates

- o 29.36 N and 82.26 W

Date and time (with previous dry hours)

- o 8/20/2010 2:15 PM
- o pdh~72

Sampling personnel

- o Chris and Vince

Description of catchment

Cover information

- o 89% Pavement, 2% Concrete, 4% Grass, and 5% Tree

Potential constraints to property access

- o R/W

Typical geometry and R/W section

- o 2-lane street with 30' right of way with curb and gutter system

Run-on conditions

- o ROW and yards are grassed and drain to asphalt roadway that drains to inlet

Reclaimed water application

- o Yes, Storm water

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o P-3 and P-4 CBs

Significant features influencing PM, N, P load

- o Grass clipping and leaf debris

Predominant PM, N, and P sources

- o Biogenic

Description of catch basin

Type

- o Surface grate

Approximate age

- o 18 years

Previous cleaning activity

- o Cleaned April, 2009

Condition

- o Minor sediment, otherwise functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 4.3 ft³

Description of flow to catch basin

- o Discharge from upstream stream

Description of sampling method

- o Composite grab with stainless steel spoon

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o 700g

Description of sample and COC

- o Moist
- o COC provided on 08/20/2010



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
GNV : Gainesville
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV-CB-C-IN-2)

Sample identification

- o GNV – CB – C – IN – 2

Jurisdiction

- o State

Land use zoning

- o Commercial

Location

- o Museum Rd. and Reitz Union Dr.

Co-ordinates

- o 29.38 N and 82.20 W

Date and time (with previous dry hours)

- o 8/20/2010 3:00 PM
- o pdh~72

Sampling personnel

- o Chris and Vince

Description of catchment

Cover information

- o 89% Pavement, 5% Concrete, 4% Grass, and 2% Tree

Potential constraints to property access

- o R/W

Typical geometry and R/W section

- o 2-lane street with 55' right of way with curb and gutter system

Run-on conditions

- o ROW and yards are grassed and drain to asphalt roadway that drains to inlet

Reclaimed water application

- o Yes, Storm water

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o P-3 and P-4 CBs

Significant features influencing PM, N, P load

- o Grass clipping and leaf debris

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o P-4 catch basin

Approximate age

- o 18 years

Previous cleaning activity

- o Unknown

Condition

- o Minor sediment, otherwise functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 9.3 ft³

Description of flow to catch basin

- o Discharge from upstream stream

Description of sampling method

- o Composite grab with stainless steel spoon

Traffic estimate (ADT)

- o 11245

Approx. weight of recovered sample

- o 3225g

Description of sample and COC

- o Wet
- o COC provided on 08/20/2010



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
GNV : Gainesville
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV-CB-C-IN-3)

Sample identification

- o GNV – CB – C – IN – 3

Jurisdiction

- o State

Land use zoning

- o Commercial

Location

- o North-South Dr. and Mowry Rd.

Co-ordinates

- o 29.38 N and 82.21 W

Date and time (with previous dry hours)

- o 8/20/2010 3:30 PM
- o pdh~72

Sampling personnel

- o Chris and Vince

Description of catchment

Cover information

- o 91% Pavement, 5% Concrete, 3% Grass, and 1% Tree

Potential constraints to property access

- o R/W

Typical geometry and R/W section

- o 5-lane street with 60' right of way with curb and gutter system

Run-on conditions

- o ROW and yards are grassed and drain to asphalt roadway that drains to inlet

Reclaimed water application

- o Yes, Storm water

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o P-3 and P-4 CBs

Significant features influencing PM, N, P load

- o Grass clipping and leaf debris

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Surface grate

Approximate age

- o 15 years

Previous cleaning activity

- o Unknown

Condition

- o Minor sediment, otherwise functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 24 ft³

Description of flow to catch basin

- o Discharge from upstream stream

Description of sampling method

- o Composite grab with stainless steel spoon

Traffic estimate (ADT)

- o 15981

Approx. weight of recovered sample

- o 2850g

Description of sample and COC

- o Wet
- o COC provided on 08/20/2010



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
GNV : Gainesville
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV-CB-H-IN-1)

Sample identification

- o GNV – CB – H – IN – 1

Jurisdiction

- o Gainesville

Land use zoning

- o Highway

Location

- o 2000 W University Ave.

Co-ordinates

- o 29.38 N and 82.20 W

Date and time (with previous dry hours)

- o 8/20/2010 9:00 AM
- o pdh~72

Sampling personnel

- o Chris and Vince

Description of catchment

Cover information

- o 89% Pavement, 4% Concrete, 2% Grass, and 5% Tree

Potential constraints to property access

- o FDOT R/W in commercial zone

Typical geometry and R/W section

- o 5-lane street with 80' right of way with curb and gutter system

Run-on conditions

- o Runoff

Reclaimed water application

- o Yes

Basic description of soil type

- o Urban land – Hydro group D

Drainage appurtenances in the area

- o P-3 and P-4 CBs

Significant features influencing PM, N, P load

- o Grass clipping, leaf debris, and roadside litter

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o 20 years

Previous cleaning activity

- o Unknown

Condition

- o Minor sediment, otherwise functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 2.8 ft³

Description of flow to catch basin

- o Discharge from upstream stream

Description of sampling method

- o Composite grab with stainless steel spoon

Traffic estimate (ADT)

- o 23500

Approx. weight of recovered sample

- o 875g

Description of sample and COC

- o Moist
- o COC provided on 08/20/2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
GNV : Gainesville
H : highway land use
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV-CB-H-IN-2)

Sample identification

- o GNV – CB – H – IN – 2

Jurisdiction

- o State

Land use zoning

- o Highway

Location

- o 800 SW 13th St.

Co-ordinates

- o 29 38.716 N and 82 20.365 W

Date and time (with previous dry hours)

- o 8/20/2010 9:30 AM
- o pdh~72

Sampling personnel

- o Chris and Vince

Description of catchment

Cover information

- o 89% Pavement, 4% Concrete, 2% Grass, and 5% Tree

Potential constraints to property access

- o FDOT R/W

Typical geometry and R/W section

- o 4-lane street and median with 95' right of way with curb and gutter system

Run-on conditions

- o Runoff

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o P-3 and P-4 CBs

Significant features influencing PM, N, P load

- o Grass clipping, leaf debris, and roadside litter

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o P-4 catch basin

Approximate age

- o 15 years

Previous cleaning activity

- o Unknown

Condition

- o Minor sediment, otherwise functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 4.3 ft³

Description of flow to catch basin

- o Discharge from upstream stream

Description of sampling method

- o Composite grab with stainless steel spoon

Traffic estimate (ADT)

- o 33000

Approx. weight of recovered sample

- o 1825g

Description of sample and COC

- o Moist
- o COC provided on 08/20/2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
GNV : Gainesville
H : highway land use
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV-CB-H-IN-3)

Sample identification

- o GNV – CB – H – IN – 3

Jurisdiction

- o State

Land use zoning

- o Highway

Location

- o 2000 SW Archer Rd.

Co-ordinates

- o 29 38.206 N and 82 21.03 W

Date and time (with previous dry hours)

- o 8/20/2010 10:30 AM
- o pdh~72

Sampling personnel

- o Chris and Vince

Description of catchment

Cover information

- o 91% Pavement, 4% Concrete, 3% Grass, and 2% Tree

Potential constraints to property access

- o FDOT R/W

Typical geometry and R/W section

- o 4-lane street and median with 100' right of way with curb and gutter system

Run-on conditions

- o Runoff

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o P-3 and P-4 CBs

Significant features influencing PM, N, P load

- o Grass clipping, leaf debris, and roadside litter

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o P-4 catch basin

Approximate age

- o 15 years

Previous cleaning activity

- o Unknown

Condition

- o Minor sediment, otherwise functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 4.3 ft³

Description of flow to catch basin

- o Discharge from upstream stream

Description of sampling method

- o Composite grab with stainless steel spoon

Traffic estimate (ADT)

- o 30000

Approx. weight of recovered sample

- o 1575g

Description of sample and COC

- o Moist
- o COC provided on 08/20/2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
GNV : Gainesville
H : highway land use
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV-CB-R-IN-1)

Sample identification

- o GNV – CB – R – IN – 1

Jurisdiction

- o Gainesville

Land use zoning

- o Residential

Location

- o 8300 SW 11th Rd.

Co-ordinates

- o 29.640735 N and 82.431501 W

Date and time (with previous dry hours)

- o 7/22/2010 3:20 PM
- o pdh~24

Sampling personnel

- o Chris, Tim, Little

Description of catchment

Cover information

- o 92% Pavement, 2% Concrete, 4% Grass, and 1% Tree

Potential constraints to property access

- o Country R/W

Typical geometry and R/W section

- o 2-lane street with 30" right of way with curb and gutter system

Run-on conditions

- o Runoff ROW and yards are grassed and drain to asphalt roadway that drains to inlet

Reclaimed water application

- o Yes

Basic description of soil type

- o Urban land – Hydro group D

Drainage appurtenances in the area

- o P-3 and P-4 CBs

Significant features influencing PM, N, P load

- o Grass debris, leaf debris, and roadside litter

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o P-4 curb inlet catch basin

Approximate age

- o 8 years

Previous cleaning activity

- o Cleaned Aug. 9

Condition

- o Minor sediment, otherwise functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 3.4 ft³

Description of flow to catch basin

- o Discharge from upstream stream

Description of sampling method

- o Composite grab with stainless steel spoon

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o 2300g

Description of sample and COC

- o Moist
- o COC provided on 07.23.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
GNV : Gainesville
IN : inside reclaimed water area
R : residential land use
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV-CB-R-IN-2)

Sample identification

- o GNV – CB – R – IN – 2

Jurisdiction

- o Gainesville

Land use zoning

- o Residential

Location

- o 8500 SW 10th Ave.

Co-ordinates

- o 29.643523 N and 82.432856 W

Date and time (with previous dry hours)

- o 7/22/2010 3:00 PM
- o pdh~24

Sampling personnel

- o Chris, Tim, Little

Description of catchment

Cover information

- o 92% Pavement, 2% Concrete, 4% Grass, and 1% Tree

Potential constraints to property access

- o Country R/W

Typical geometry and R/W section

- o 2-lane street with 30" right of way with curb and gutter system

Run-on conditions

- o Runoff ROW and yards are grassed and drain to asphalt roadway that drains to inlet

Reclaimed water application

- o Yes

Basic description of soil type

- o Urban land – Hydro group D

Drainage appurtenances in the area

- o P-3 and P-4 CBs

Significant features influencing PM, N, P load

- o Grass debris, leaf debris, and roadside litter

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o P-4 curb inlet catch basin

Approximate age

- o 8 years

Previous cleaning activity

- o Cleaned Aug. 9

Condition

- o Minor sediment, otherwise functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 4.3 ft³

Description of flow to catch basin

- o Discharge from upstream stream

Description of sampling method

- o Composite grab with stainless steel spoon

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o 3275g

Description of sample and COC

- o Moist
- o COC provided on 07.23.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
GNV : Gainesville
IN : inside reclaimed water area
R : residential land use
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV-CB-R-IN-3)

Sample identification

- o GNV – CB – R – IN – 3

Jurisdiction

- o Gainesville

Land use zoning

- o Residential

Location

- o 3913 SW 89th Dr.

Co-ordinates

- o 29.617804 N and 82.437082 W

Date and time (with previous dry hours)

- o 7/22/2010 3:00 PM
- o pdh~24

Sampling personnel

- o Chris, Tim, Little

Description of catchment

Cover information

- o 92% Pavement, 2% Concrete, 4% Grass, and 1% Tree

Potential constraints to property access

- o Country R/W

Typical geometry and R/W section

- o 2-lane street with 30" right of way with curb and gutter system

Run-on conditions

- o Runoff ROW and yards are grassed and drain to asphalt roadway that drains to inlet

Reclaimed water application

- o Yes

Basic description of soil type

- o Urban land – Hydro group D

Drainage appurtenances in the area

- o P-3 and P-4 CBs

Significant features influencing PM, N, P load

- o Grass debris, leaf debris, and roadside litter

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o P-4 curb inlet catch basin

Approximate age

- o 8 years

Previous cleaning activity

- o Cleaned Aug. 9

Condition

- o Minor sediment, otherwise functional

Condition of PM residuals

- o Moist

Dimensions and volume

- o 4.3 ft³

Description of flow to catch basin

- o Discharge from upstream stream

Description of sampling method

- o Composite grab with stainless steel spoon

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o 2375g

Description of sample and COC

- o Moist
- o COC provided on 07.23.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
GNV : Gainesville
IN : inside reclaimed water area
R : residential land use
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (GNV - SS - C - IN - 1)

Sample ID

- o GNV – SS – C – IN – 1

Jurisdiction

- o Gainesville

Land Use Zoning

- o Commercial

Location

- o 5100 SW 91 Ct

Co-ordinates

- o 29.36, -82.26

Date and Time (with Previous Dry Hours)

- o 09/2/2010 10:45 AM
- o ~24

Sampling Personnel

- o Vince and Johnny

Description of Catchment

Pavement Type

- o Concrete curb and gutter with asphalt roadway, slope 0.08, good, 15 years

Typical Geometry and R/W Section

- o R/W

Run-on Conditions

- o Run on from concrete sidewalk, grass strip, and asphalt roadway

Drainage Appurtenances in the Catchment Area

- o P3 and P4 catch basin

Significant Features that may affect PM, N and P loadings

- o Grass clipping and leaf debris, 1026 lbs/mile

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o SW and reclaimed water

Description of Sweeping Equipment

- o Allianz, 4000, mechanical, 2005.

Dimensions of Area Cleaned

- o 1,506 feet of right of way

Previous Cleaning Activity

- o N/A

Traffic Estimate (ADT)

- o N/A

Approx. Weight of Recovered Sample

- o ~1750 g.

Description of Sample and COC

- o Dry
- o COC provided on 09/02/2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
GNV : Gainesville
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - GAINESVILLE (GNV - SS - C - IN - 2)

Sample ID

- o GNV – SS – C – IN – 2

Jurisdiction

- o Gainesville

Land Use Zoning

- o Commercial

Location

- o Museum Rd and Reitz Union Dr

Co-ordinates

- o 29.38, -82.20

Date and Time (with Previous Dry Hours)

- o 09/2/2010 10:00 AM
- o ~24

Sampling Personnel

- o Vince and Johnny

Description of Catchment

Pavement Type

- o Concrete curb and gutter with asphalt roadway, slope 0.08, good, 5 years

Typical Geometry and R/W Section

- o R/W

Run-on Conditions

- o Run on from concrete sidewalk, grass strip, and asphalt roadway

Drainage Appurtenances in the Catchment Area

- o P3 and P4 catch basin

Significant Features that may affect PM, N and P loadings

- o Grass clipping and leaf debris, 831 lbs/mile

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o SW and reclaimed water

Description of Sweeping Equipment

- o Allianz, 4000, mechanical, 2005.

Dimensions of Area Cleaned

- o 523 feet of 55 ft right of way

Previous Cleaning Activity

- o N/A

Traffic Estimate (ADT)

- o 11,245

Approx. Weight of Recovered Sample

- o ~1900 g.

Description of Sample and COC

- o Dry
- o COC provided on 09/02/2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
GNV : Gainesville
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - GAINESVILLE (GNV - SS - C - IN - 3)

Sample ID

- o GNV – SS – C – IN – 3

Jurisdiction

- o Gainesville

Land Use Zoning

- o Commercial

Location

- o North-South Dr and Mowry Rd

Co-ordinates

- o 29.38, -82.21

Date and Time (with Previous Dry Hours)

- o 09/2/2010 10:15 AM
- o ~24

Sampling Personnel

- o Vince and Johnny

Description of Catchment

Pavement Type

- o Concrete curb and gutter with asphalt roadway, slope 0.08, good, 5 years

Typical Geometry and R/W Section

- o FDOT R/W

Run-on Conditions

- o Run on from concrete sidewalk, grass strip, and asphalt roadway

Drainage Appurtenances in the Catchment Area

- o P3 and P4 catch basin

Significant Features that may affect PM, N and P loadings

- o Grass clipping and leaf debris, 831 lbs/mile

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o SW and reclaimed water

Description of Sweeping Equipment

- o Allianz, 4000, mechanical, 2005.

Dimensions of Area Cleaned

- o 2,071 feet of 60 ft right of way

Previous Cleaning Activity

- o N/A

Traffic Estimate (ADT)

- o 15,981

Approx. Weight of Recovered Sample

- o ~1200 g.

Description of Sample and COC

- o Dry
- o COC provided on 09/02/2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
GNV : Gainesville
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - GAINESVILLE (GNV - SS - H - IN - 1)

Sample ID

- o GNV – SS – H – IN – 1

Jurisdiction

- o Gainesville

Land Use Zoning

- o Highway

Location

- o 2000 W University Ave

Co-ordinates

- o 29.38, -82.20

Date and Time (with Previous Dry Hours)

- o 09/2/2010 8:30AM
- o ~48

Sampling Personnel

- o Vince and Johnny

Description of Catchment

Pavement Type

- o Concrete curb and gutter with asphalt roadway, slope 0.08, good, 1 year

Typical Geometry and R/W Section

- o FDOT R/W

Run-on Conditions

- o Run on from concrete sidewalk, grass strip, and asphalt roadway

Drainage Appurtenances in the Catchment Area

- o P3 and P4 catch basins

Significant Features that may affect PM, N and P loadings

- o Grass clippings, leaf debris, and litter. 923 lbs/mile

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o SW and reclaimed water

Description of Sweeping Equipment

- o Allianz, 4000, mechanical, 2005

Dimensions of Area Cleaned

- o 615 feet of 80 feet state right of way

Previous Cleaning Activity

- o ~N/A

Traffic Estimate (ADT)

- o 23,500

Approx. Weight of Recovered Sample

- o ~1850 g

Description of Sample and COC

- o Dry
- o COC provided on 09/02/2010



ADT : average daily traffic
COC : chain of custody
GNV : Gainesville
H : highway land use
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
IN : inside reclaimed water area
R/W : right of way
SS : street sweeping

FIELD INFORMATION - GAINESVILLE (GNV - SS - H - IN - 2)

Sample ID

- o GNV – SS – H – IN – 2

Jurisdiction

- o Gainesville

Land Use Zoning

- o Highway

Location

- o 800 SW 13th St

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 09/2/2010 8:30AM
- o ~48

Sampling Personnel

- o Vince and Johnny

Description of Catchment

Pavement Type

- o Concrete curb and gutter with asphalt roadway, slope 0.08, good, 10 years

Typical Geometry and R/W Section

- o FDOT R/W

Run-on Conditions

- o Run on from concrete sidewalk, grass strip, and asphalt roadway

Drainage Appurtenances in the Catchment Area

- o P3 and P4 catch basins

Significant Features that may affect PM, N and P loadings

- o Grass clippings, leaf debris, and litter. 923 lbs/mile

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o SW and reclaimed water

Description of Sweeping Equipment

- o Allianz, 4000, mechanical, 2005

Dimensions of Area Cleaned

- o 877 feet of state right of way

Previous Cleaning Activity

- o ~N/A

Traffic Estimate (ADT)

- o 33,000

Approx. Weight of Recovered Sample

- o ~1800 g

Description of Sample and COC

- o Dry
- o COC provided on 09/02/2010



ADT : average daily traffic
COC : chain of custody
GNV : Gainesville
H : highway land use
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
IN : inside reclaimed water area
R/W : right of way
SS : street sweeping

FIELD INFORMATION - GAINESVILLE (GNV - SS - H - IN - 3)

Sample ID

- o GNV – SS – H – IN – 3

Jurisdiction

- o Gainesville

Land Use Zoning

- o Highway

Location

- o 2000 SW Archer Rd

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 09/2/2010 10:30AM
- o ~24

Sampling Personnel

- o Vince and Johnny

Description of Catchment

Pavement Type

- o Concrete curb and gutter with asphalt roadway, slope 0.08, good, 10 years

Typical Geometry and R/W Section

- o FDOT R/W

Run-on Conditions

- o Run on from concrete sidewalk, grass strip, and asphalt roadway

Drainage Appurtenances in the Catchment Area

- o P3 and P4 catch basins

Significant Features that may affect PM, N and P loadings

- o Grass clippings and litter, 831 lbs/mile

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o SW and reclaimed water

Description of Sweeping Equipment

- o Allianz, 4000, mechanical, 2005

Dimensions of Area Cleaned

- o 1,408 feet of 100 ft right of way

Previous Cleaning Activity

- o ~N/A

Traffic Estimate (ADT)

- o 30,000

Approx. Weight of Recovered Sample

- o ~2250 g

Description of Sample and COC

- o Dry
- o COC provided on 09.02.2010



ADT : average daily traffic
COC : chain of custody
GNV : Gainesville
H : highway land use
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
IN : inside reclaimed water area
R/W : right of way
SS : street sweeping

FIELD INFORMATION - GAINESVILLE (GNV - SS - R - IN - 1)

Sample ID

- o GNV – SS – R – IN – 1

Jurisdiction

- o Gainesville

Land Use Zoning

- o Residential

Location

- o 8300 SW 11 Road

Co-ordinates

- o 29.641446, -82.431278

Date and Time (with Previous Dry Hours)

- o 07/23/2010 12:45 PM
- o ~48

Sampling Personnel

- o Chris, Tim, Keith

Description of Catchment

Pavement Type

- o Concrete curb and gutter with asphalt roadway, slope 0.009, good, 8 years

Typical Geometry and R/W Section

- o 30' County R/W

Run-on Conditions

- o Run on ROW and yards (area to building setback) are grassed and drain to asphalt roadway that drains to inlet

Drainage Appurtenances in the Catchment Area

- o P3 and P4 catch basins

Significant Features that may affect PM, N and P loadings

- o Grass clippings and leaf debris, 831 lbs/mile

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o Reclaimed water

Description of Sweeping Equipment

- o Allianz, 4000, mechanical, 2005

Dimensions of Area Cleaned

- o 518 feet of 30 feet right of way

Previous Cleaning Activity

- o ~N/A

Traffic Estimate (ADT)

- o N/A

Approx. Weight of Recovered Sample

- o ~1700 g

Description of Sample and COC

- o Anthropogenic
- o COC provided on 07/23/2010



ADT : average daily traffic
COC : chain of custody
GNV : Gainesville
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping

FIELD INFORMATION - GAINESVILLE (GNV - SS - R - IN - 2)

Sample ID

- o GNV – SS – R – IN – 2

Jurisdiction

- o Gainesville

Land Use Zoning

- o Residential

Location

- o 8500 SW 10 Ave

Co-ordinates

- o 29.644263, -82.432927

Date and Time (with Previous Dry Hours)

- o 07/23/2010 1:15 PM
- o ~168

Sampling Personnel

- o Chris, Tim, Keith

Description of Catchment

Pavement Type

- o Concrete curb and gutter with asphalt roadway, slope 0.009, good, 8 years

Typical Geometry and R/W Section

- o 30' County R/W

Run-on Conditions

- o Run on ROW and yards (area to building setback) are grassed and drain to asphalt roadway that drains to inlet

Drainage Appurtenances in the Catchment Area

- o P3 and P4 catch basins

Significant Features that may affect PM, N and P loadings

- o Grass clippings and leaf debris, 831 lbs/mile

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o Reclaimed Water

Description of Sweeping Equipment

- o Allianz, 4000, mechanical, 2005

Dimensions of Area Cleaned

- o 586 feet of 30 feet right of way

Previous Cleaning Activity

- o ~N/A

Traffic Estimate (ADT)

- o N/A

Approx. Weight of Recovered Sample

- o ~375 g

Description of Sample and COC

- o Moist
- o COC provided on 07/23/2010



ADT : average daily traffic
COC : chain of custody
GNV : Gainesville
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping

FIELD INFORMATION - GAINESVILLE (GNV - SS - R - IN - 3)

Sample ID

- o GNV – SS – R – IN – 3

Jurisdiction

- o Gainesville

Land Use Zoning

- o Residential

Location

- o 3913 SW 89 Dr

Co-ordinates

- o 29.616734, -82.437303

Date and Time (with Previous Dry Hours)

- o 07/23/2010 1:15 PM
- o ~48

Sampling Personnel

- o Chris, Tim, Keith

Description of Catchment

Pavement Type

- o Concrete curb and gutter with asphalt roadway, slope 0.08, good, 8 years

Typical Geometry and R/W Section

- o 30' County R/W

Run-on Conditions

- o Run on ROW and yards (area to building setback) are grassed and drain to asphalt roadway that drains to inlet

Drainage Appurtenances in the Catchment Area

- o P3 and P4 catch basins

Significant Features that may affect PM, N and P loadings

- o Grass clippings and leaf debris, 831 lbs/mile

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o Reclaimed Water

Description of Sweeping Equipment

- o Allianz, 4000, mechanical, 2005

Dimensions of Area Cleaned

- o 975 feet of 20 feet right of way

Previous Cleaning Activity

- o ~N/A

Traffic Estimate (ADT)

- o N/A

Approx. Weight of Recovered Sample

- o ~700 g

Description of Sample and COC

- o Moist
- o COC provided on 07.23.2010



ADT : average daily traffic
COC : chain of custody
GNV : Gainesville
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping

HILLSBOROUGH COUNTY (HC)

FIELD INFORMATION - GAINESVILLE (HC - BMP - C - OUT -1)

Sample identification

- o HC - BMP - C - OUT -1

Jurisdiction

- o Hillsborough County

Land use zoning

- o Commercial

Location

- o 4340 W Hillsborough Ave

Co-ordinates

- o N27 59.755' W82 31.043'

Date and time (with previous dry hours)

- o 05/11/2009 9:55 AM

- o pdh ~ 504

Sampling personnel

- o Kevin King

Description of catchment

Cover information

- o No tree cover

Potential constraints to property access

- o None

Typical geometry and R/W section

- o A 102ft wide, 6 lane roadway that crowns without curb and gutter, a concrete median, a transverse slope of 3.7% and a longitudinal slope of 0.3%.

Run-on conditions

- o Highway asphalt, parking lot, grass

Reclaimed water application

- o No

Basic description of soil type

- o Basinger/holopaw/Samula depressional

Drainage appurtenances in the area

- o Concrete culverts, open ditch, ditch bottom inlet

Significant features influencing PM, N, P load

- o Highly travelled 6 lane highway adjacent

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Ditch

Approximate age

- o ~20-25 years

Previous cleaning activity

- o No cleaning on record

Condition

- o Vegetated

Condition of PM residuals

- o Moist

Dimensions and volume

- o 4:1 side slopes, 3ft. wide bottom, 35ft. wide, 4ft. high, 325ft. long, volume 24,700ft.³

Description of flow to BMP

- o Direct runoff

Description of sampling method

- o Composite per QAP

Traffic estimate (ADT)

- o 71,280

Approx. weight of recovered sample

- o 4.9 lbs

Description of sample and COC

- o Moist, sandy soil, some organic matter
- o COC provided on 05/13/2009



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
HC : Hillsborough County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (HC - BMP - C - OUT -2)

Sample identification

- o HC - BMP - C - OUT -2

Jurisdiction

- o Hillsborough County

Land use zoning

- o Commercial

Location

- o 6402 Badger Dr.

Co-ordinates

- o N28 0.368' W82 22.963'

Date and time (with previous dry hours)

- o 05/11/2009 10:46 AM
- o pdh ~ 1,176

Sampling personnel

- o John McGee

Description of catchment

Cover information

- o 10% tree cover, live oaks, some street trees

Potential constraints to property access

- o None

Typical geometry and R/W section

- o A 36 ft wide, 2 lane roadway that crowns without curb and gutter, no median, a transverse slope of 0.9%, and a longitudinal slope of 1.0%

Run-on conditions

- o Lightly traveled asphalt, grass

Reclaimed water application

- o No

Basic description of soil type

- o Candler fine sand/0-5% slopes

Drainage appurtenances in the area

- o Concrete culverts, curb and gutter

Significant features influencing PM, N, P load

- o Corporate/light industrial park

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Retention pond

Approximate age

- o ~25-30 years

Previous cleaning activity

- o No cleaning on record

Condition

- o Vegetated, 11-35% surface/subsurface blockage

Condition of PM residuals

- o Moist

Dimensions and volume

- o Surface area 113,135 ft². Estimated volume 678,810 ft³ (assumed 6 ft minimum depth per Hillsborough County Technical Manual criterion)

Description of flow to BMP

- o Direct runoff

Description of sampling method

- o Composite per QAP

Traffic estimate (ADT)

- o 1,256

Approx. weight of recovered sample

- o 6.65 lbs

Description of sample and COC

- o Moist, sand, gravel
- o COC provided on 05/13/2009



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
HC : Hillsborough County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - GAINESVILLE (HC - BMP - C - OUT -3)

Sample identification

- o HC - BMP - C - OUT -3

Jurisdiction

- o Hillsborough County

Land use zoning

- o Commercial, highway

Location

- o 13146 S Hwy 301.

Co-ordinates

- o N27 47.615' W82 20.073'

Date and time (with previous dry hours)

- o 04/14/2009 2:00 PM

- o pdh ~ 648

Sampling personnel

- o John McGee

Description of catchment

Cover information

- o No tree cover

Potential constraints to property access

- o None

Typical geometry and R/W section

- o A 70 ft wide, 5 lane roadway that crowns with curb and gutter, a grass median, a transverse slope of 3.8%, and a longitudinal slope of 0.3%

Run-on conditions

- o Asphalt parking lot, highway

Reclaimed water application

- o No

Basic description of soil type

- o Seffner Fine Sand

Drainage appurtenances in the area

- o Ditch, concrete culvert

Significant features influencing PM, N, P load

- o Highly traveled 4 lane highway intersection. Newly constructed.

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Ditch

Approximate age

- o ~5-10 years

Previous cleaning activity

- o No cleaning on record

Condition

- o Recently vegetated

Condition of PM residuals

- o Moist

Dimensions and volume

- o 4:1 side slopes, 3 ft. bottom, 30 ft. wide, 3.5 ft deep, 385 ft. long, volume 22,233.75 ft³

Description of flow to BMP

- o Direct runoff, culvert discharge under drive

Description of sampling method

- o Composite per QAP

Traffic estimate (ADT)

- o 10,522

Approx. weight of recovered sample

- o 5.85 lbs

Description of sample and COC

- o Moist, sand
- o COC provided on 05/13/2009



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
HC : Hillsborough county
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - HILLSBOROUGH (HC - BMP - H - OUT -1)

Sample identification

- o HC - BMP - H - OUT -1

Jurisdiction

- o Hillsborough County

Land use zoning

- o Highway

Location

- o 5202 W Sligh Ave

Co-ordinates

- o N28 0.4813' W82 31.961'

Date and time (with previous dry hours)

- o 05/11/2009 9:10 AM
- o pdh ~ 504

Sampling personnel

- o Kevin King

Description of catchment

Cover information

- o No tree cover

Potential constraints to property access

- o None

Typical geometry and R/W section

- o A 78 ft wide, 4 lane roadway that slopes from East to West with curb and gutter, a grass median, a transverse slope of 0.9%, and a longitudinal slope of 0.3%

Run-on conditions

- o Only takes water from highway

Reclaimed water application

- o No

Basic description of soil type

- o Myakka urban land complex

Drainage appurtenances in the area

- o Concrete culverts

Significant features influencing PM, N, P load

- o BMP is highly vegetated

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Detention pond

Approximate age

- o ~25-30 years

Previous cleaning activity

- o No cleaning on record

Condition

- o 11-25% surface or subsurface blockage

Condition of PM residuals

- o Dry

Dimensions and volume

- o Surface area 251,981 ft². Estimated volume 1,511,886 ft³ (assumed 6 ft minimum depth per Hills. County Technical Manual criterion)

Description of flow to BMP

- o Direct runoff

Description of sampling method

- o Composite

Traffic estimate (ADT)

- o 15,801

Approx. weight of recovered sample

- o 5.25 lbs

Description of sample and COC

- o Dry, sand, some organic matter
- o COC provided on 05/13/2009
- o



ADT : average daily traffic

BMP : best management practice

COC : chain of custody

H : highway land use

HC : Hillsborough county

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

FIELD INFORMATION - HILLSBOROUGH (HC - BMP - H - OUT -2)

Sample identification

- o HC - BMP - H - OUT -2

Jurisdiction

- o Hillsborough County

Land use zoning

- o Highway, agricultural, light commercial

Location

- o 10819 E Dr. Martin Luther King Jr. Blvd.

Co-ordinates

- o N27 58.821' W82 19.106'

Date and time (with previous dry hours)

- o 05/11/2009 11:15 AM
- o pdh ~ 648

Sampling personnel

- o Kevin King

Description of catchment

Cover information

- o 40% tree cover, oaks, maples

Potential constraints to property access

- o None

Typical geometry and R/W section

- o A 36 ft wide, 3 lane roadway that crowns with curb and gutter, no median, a transverse slope of 5.4% and a longitudinal slope 0.7%

Run-on conditions

- o Limerock drive, grass concrete parking lot

Reclaimed water application

- o No

Basic description of soil type

- o Basinger/Holopaw/Samsula
Depressional

Drainage appurtenances in the area

- o Concrete culvert, ditch

Significant features influencing PM, N, P load

- o Unpaved mechanic shop nearby

Predominant PM, N, and P sources

- o Mixed

Description of BMP

Type

- o Ditch

Approximate age

- o ~10-15 years

Previous cleaning activity

- o No cleaning on record

Condition

- o Highly vegetated, 11-25% restriction

Condition of PM residuals

- o Dry

Dimensions and volume

- o 4:1 side slopes, 3 ft. bottom, 32 ft. wide, 3.5 ft deep, 61.25 ft. long, volume 25,173.75 ft³

Description of flow to BMP

- o Direct runoff, culvert discharge from parking lot

Description of sampling method

- o Composite

Traffic estimate (ADT)

- o 5,151

Approx. weight of recovered sample

- o 5.05 lbs

Description of sample and COC

- o Sand, organic matter
- o COC provided on 05/13/2009



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
HC : Hillsborough county
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - HILLSBOROUGH (HC - BMP - H - OUT -3)

Sample identification

- o HC - BMP - H - OUT -3

Jurisdiction

- o Hillsborough County

Land use zoning

- o Highway, conservation

Location

- o 13411 Fishhawk Blvd

Co-ordinates

- o N27 51.220' W82 15.971'

Date and time (with previous dry hours)

- o 05/11/2009 1:15 PM
- o pdh ~ 648

Sampling personnel

- o John McGee

Description of catchment

Cover information

- o 70% tree cover, forested wetland

Potential constraints to property access

- o None

Typical geometry and R/W section

- o A 36 ft wide, 2 lane roadway with curb and gutter, no median, a transverse slope of 1.7% and a longitudinal slope 0.8%

Run-on conditions

- o Grass, asphalt parking lot

Reclaimed water application

- o No

Basic description of soil type

- o Lake Fine Sand/0-5% slopes

Drainage appurtenances in the area

- o Concrete culvert, curb inlet, curb and gutter

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Antrho

Description of BMP

Type

- o Detention pond

Approximate age

- o ~20-25 years

Previous cleaning activity

- o No cleaning on record

Condition

- o Mucky, vegetated

Condition of PM residuals

- o Moist

Dimensions and volume

- o Surface area 6,395 ft², Estimated volume 38,370 ft³ (assumed 6 ft minimum depth Hills. County Technical criterion)

Description of flow to BMP

- o Direct runoff, culvert discharge from road

Description of sampling method

- o Composite

Traffic estimate (ADT)

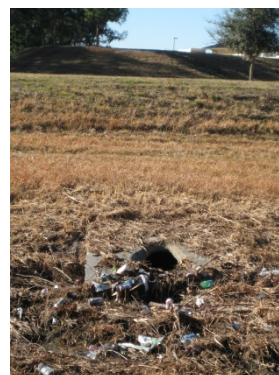
- o 8,158

Approx. weight of recovered sample

- o 3.35 lbs

Description of sample and COC

- o Composted organic matter
- o COC provided on 05/13/2009



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
HC : Hillsborough county
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - HILLSBOROUGH- (HC - BMP - R - OUT -1)

Sample identification

- o HC - BMP - R - OUT -1

Jurisdiction

- o Hillsborough County

Land use zoning

- o Residential

Location

- o 9819 Crandon Ln.

Co-ordinates

- o N28 2.023' W82 35.003'

Date and time (with previous dry hours)

- o 05/11/2009 8:52 AM
- o pdh ~ 984

Sampling personnel

- o Kevin King

Description of catchment

Cover information

- o 5% tree cover, oaks

Potential constraints to property access

- o None

Typical geometry and R/W section

- o A 78 ft wide, 4 lane roadway with curb and gutter, a grass median, a transverse slope of 3.9% and a longitudinal slope 0.3%

Run-on conditions

- o Residential street, collector road, grass

Reclaimed water application

- o No

Basic description of soil type

- o Myakka fine sand

Drainage appurtenances in the area

- o Concrete culvert, curb and gutter

Significant features influencing PM, N, P load

- o Moderate income residential community

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Detention pond

Approximate age

- o ~15-20 years

Previous cleaning activity

- o No cleaning on record

Condition

- o 26-50% surface or sub-surface blockage

Condition of PM residuals

- o Moist

Dimensions and volume

- o Surface area 99,358 ft², Estimated volume 596,310 ft³ (assumed 6 ft minimum depth Hills. County Technical criterion)

Description of flow to BMP

- o Direct runoff

Description of sampling method

- o Composite

Traffic estimate (ADT)

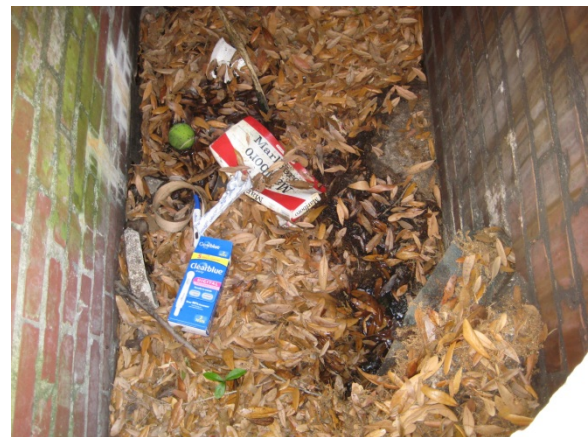
- o 18,174

Approx. weight of recovered sample

- o 5.2 lbs

Description of sample and COC

- o Sand, some organic matter
- o COC provided on 05/13/2009



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
HC : Hillsborough county
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - HILLSBOROUGH- (HC - BMP - R - OUT -2)

Sample identification

- o HC - BMP - R - OUT -2

Jurisdiction

- o Hillsborough County

Land use zoning

- o Residential

Location

- o 2122 Redleaf Dr.

Co-ordinates

- o N27 58.546' W82 18.625'

Date and time (with previous dry hours)

- o 05/11/2009 11:24 AM
- o pdh ~ 648

Sampling personnel

- o Kevin King

Description of catchment

Cover information

- o 0% tree cover

Potential constraints to property access

- o None

Typical geometry and R/W section

- o A 46 ft wide, 3 lane roadway with curb and gutter, a grass median, a transverse slope of 1.0% and a longitudinal slope 0.6%

Run-on conditions

- o Grass, asphalt

Reclaimed water application

- o No

Basic description of soil type

- o St. Johns fine sand

Drainage appurtenances in the area

- o Concrete culvert, curb inlet, curb and gutter

Significant features influencing PM, N, P load

- o Mostly bahia grass laws, moderate income

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Swale

Approximate age

- o ~25-30 years

Previous cleaning activity

- o No cleaning on record

Condition

- o Nearly full of sediment

Condition of PM residuals

- o Dry

Dimensions and volume

- o Length 219 ft., width 6 ft., depth 1 ft.
volume 1,314 ft³

Description of flow to BMP

- o Direct runoff, culvert discharge from road

Description of sampling method

- o Composite

Traffic estimate (ADT)

- o 13,681

Approx. weight of recovered sample

- o 6.9 lbs

Description of sample and COC

- o Sand, some gravel
- o COC provided on 05/13/2009



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
HC : Hillsborough county
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - HILLSBOROUGH- (HC - BMP - R - OUT -3)

Sample identification

- o HC - BMP - R - OUT -3

Jurisdiction

- o Hillsborough County

Land use zoning

- o Residential

Location

- o 13104 Ambrose Pl.

Co-ordinates

- o N27 47.582' W82 19.053'

Date and time (with previous dry hours)

- o 05/11/2009 2:25 PM
- o pdh ~ 648

Sampling personnel

- o Kevin King

Description of catchment

Cover information

- o 80% pavement, cabbage palm, oak, viburnum

Potential constraints to property access

- o None

Typical geometry and R/W section

- o A 36 ft wide, 3 lane roadway with curb and gutter, no median, a transverse slope of 2.6% and a longitudinal slope 0.3%

Run-on conditions

- o Grass, leaf litter, asphalt

Reclaimed water application

- o No

Basic description of soil type

- o Myakka fine sand

Drainage appurtenances in the area

- o Concrete culvert, curb inlet, curb and gutter

Significant features influencing PM, N, P load

- o Highly vegetated natural area surrounding BMP

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Ditch

Approximate age

- o ~25-30 years

Previous cleaning activity

- o No cleaning on record

Condition

- o Culvert discharge, filled with sediment, highly vegetated

Condition of PM residuals

- o Moist

Dimensions and volume

- o 4:1 side slopes, 3 ft. bottom, 25 ft. wide, 2.27 deep, 580 ft. long, volume 22,330 ft³

Description of flow to BMP

- o Direct runoff, culvert discharge from road

Description of sampling method

- o Composite per QAP

Traffic estimate (ADT)

- o 9,648

Approx. weight of recovered sample

- o 4.4 lbs

Description of sample and COC

- o Even mix of sand and organic material
- o COC provided on 05/13/2009



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
HC : Hillsborough county
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - HILLSBOROUGH COUNTY (HC - CB - C - OUT - 1)

Sample identification

- o HC – CB – C – OUT – 1

Jurisdiction

- o Hillsborough County

Land use zoning

- o SPI-AP-5

Location

- o 5119 W Knox St.

Co-ordinates

- o 28 0.383 N and 82 31.923 W

Date and time (with previous dry hours)

- o 5/11/2009 9:20 AM
- o pdh~648

Sampling personnel

- o Kevin King

Description of catchment

Cover information

- o 5% scrub/weed trees

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o A 36' wide, 2-lane roadway that crowns without curb and gutter, no median, a transverse slope of 2.5% and a longitudinal slope of 0.3%

Run-on conditions

- o Asphalt parking lot

Reclaimed water application

- o No

Basic description of soil type

- o Myakka urban land complex

Drainage appurtenances in the area

- o Open top inlet

Significant features influencing PM, N, P load

- o Highly industrial area, loading dock, glass recycling center

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Open top inlet

Approximate age

- o 30-35 years

Previous cleaning activity

- o Cleaned 3/29/2007

Condition

- o 50% full

Condition of PM residuals

- o Dry

Dimensions and volume

- o 24 in (w) x 24 in (l) x 18 in (d),
10,368 in³

Description of flow to catch basin

- o Direct runoff

Description of sampling method

- o Composite

Traffic estimate (ADT)

- o 653

Approx. weight of recovered sample

- o 6.7lbs

Description of sample and COC

- o Silt, sand, shell, and gravel
- o COC provided on 05/13/2009



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
HC : Hillsborough County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - HILLSBOROUGH COUNTY (HC - CB - C - OUT - 2)

Sample identification

- o HC – CB – C – OUT – 2

Jurisdiction

- o Hillsborough County

Land use zoning

- o CG

Location

- o 10826 E Highway 92

Co-ordinates

- o 27 59.953 N and 82 19.133 W

Date and time (with previous dry hours)

- o 5/11/2009 11:00 AM

- o pdh~1176

Sampling personnel

- o Kevin King

Description of catchment

Cover information

- o 30% Oaks

Potential constraints to property access

- o None

Typical geometry and R/W section

- o A 36' wide, 3-lane roadway that crowns without curb and gutter, no median, a transverse slope of 3.8% and a longitudinal slope of 1%

Run-on conditions

- o Dirt road, asphalt, concrete, and grass

Reclaimed water application

- o No

Basic description of soil type

- o Candler fine sand

Drainage appurtenances in the area

- o Ditch

Significant features influencing PM, N, P load

- o Dirt road, light industry

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Ditch bottom inlet

Approximate age

- o 30-35 years

Previous cleaning activity

- o Cleaned 10/31/2008

Condition

- o 26-50% surface or subsurface blockage, fair

Condition of PM residuals

- o Dry

Dimensions and volume

- o 35.5 in (w) x 60 in (l) x 19.5 in (d),
41,535 in³

Description of flow to catch basin

- o Direct runoff

Description of sampling method

- o Composite

Traffic estimate (ADT)

- o 6382

Approx. weight of recovered sample

- o 5.25lbs

Description of sample and COC

- o Silt and gravel
- o COC provided on 05/13/2009



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
HC : Hillsborough County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - HILLSBOROUGH COUNTY (HC - CB - C - OUT - 3)

Sample identification

- o HC – CB – C – OUT – 3

Jurisdiction

- o Hillsborough County

Land use zoning

- o PD-C

Location

- o 13141 S Highway 301

Co-ordinates

- o 27 47.672' N and 82 20.105' W

Date and time (with previous dry hours)

- o 5/11/2009 2:15 PM
- o pdh~648

Sampling personnel

- o Kevin King

Description of catchment

Cover information

- o None, 0% pavement

Potential constraints to property access

- o None

Typical geometry and R/W section

- o A 70' wide, 4-lane roadway that slopes West to East with curb and gutter, grass median, a transverse slope of 3.8% and a longitudinal slope of 0.5%

Run-on conditions

- o Grass, asphalt

Reclaimed water application

- o No

Basic description of soil type

- o Seffner fine sand

Drainage appurtenances in the area

- o Ditch, concrete culvert

Significant features influencing PM, N, P load

- o Large highway adjacent

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Ditch

Approximate age

- o 5-10 years

Previous cleaning activity

- o No cleaning on record

Condition

- o Culvert mostly filled with sediment, vegetated

Condition of PM residuals

- o Moist

Dimensions and volume

- o 4:1 side slope,
1.375 ft (d) x 3 ft (bottom) x 14 ft (w)

Description of flow to catch basin

- o Direct runoff, culvert discharge under drive

Description of sampling method

- o Composite

Traffic estimate (ADT)

- o 8904

Approx. weight of recovered sample

- o 6.10lbs

Description of sample and COC

- o Clayey sand
- o COC provided on 05/13/2009



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
HC : Hillsborough County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - HILLSBOROUGH COUNTY (HC - CB - H - OUT - 1)

Sample identification

- o HC – CB – H – OUT – 1

Jurisdiction

- o Hillsborough County

Land use zoning

- o AR

Location

- o 8401 W Linebaugh Ave.

Co-ordinates

- o 28 2.460' N and 82 34.639' W

Date and time (with previous dry hours)

- o 5/11/2009 8:30 AM
- o pdh~984

Sampling personnel

- o Kevin King

Description of catchment

Cover information

- o 10% Oaks

Potential constraints to property access

- o None

Typical geometry and R/W section

- o A 78' wide, 4-lane roadway that slopes West to East with curb and gutter, grass median, a transverse slope of 1.9% and a longitudinal slope of 0.6%

Run-on conditions

- o Grass, asphalt

Reclaimed water application

- o No

Basic description of soil type

- o Zolfo fine sand

Drainage appurtenances in the area

- o Concrete culverts, curb and gutter

Significant features influencing PM, N, P load

- o Highly travelled highway

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Detention pond

Approximate age

- o 45-50 years

Previous cleaning activity

- o No cleaning on record

Condition

- o 11-25% surface or subsurface restriction, vegetated

Condition of PM residuals

- o Moist

Dimensions and volume

Surface area of 38,312 ft², volume of 147,664ft³

Description of flow to catch basin

- o Direct runoff

Description of sampling method

- o Composite

Traffic estimate (ADT)

- o 22251

Approx. weight of recovered sample

- o 6.6lbs

Description of sample and COC

- o Sand, gravel, some organic material
- o COC provided on 05/13/2009



ADT : average daily traffic

CB : catch basin

COC : chain of custody

H : highway land use

HC : Hillsborough County

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

FIELD INFORMATION - HILLSBOROUGH COUNTY (HC - CB - H - OUT - 2)

Sample identification

- o HC – CB – H – OUT – 2

Jurisdiction

- o Hillsborough County

Land use zoning

- o RSC-6

Location

- o 116 Fontaine St.

Co-ordinates

- o 27 36.364' N and 82 17.129' W

Date and time (with previous dry hours)

- o 5/11/2009 11:50 AM
- o pdh~648

Sampling personnel

- o Kevin King

Description of catchment

Cover information

- o 50% Oaks

Potential constraints to property access

- o None

Typical geometry and R/W section

- o A 70' wide, 5-lane roadway that crowns with curb and gutter, no median, a transverse slope of 1.4% and a longitudinal slope of 0.5%

Run-on conditions

- o Grass, asphalt

Reclaimed water application

- o No

Basic description of soil type

- o Fort meade loamy fine sand

Drainage appurtenances in the area

- o Concrete culverts, curb inlet, and curb and gutter

Significant features influencing PM, N, P load

- o Residential area on one side of pond

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Retention pond

Approximate age

- o 35-40 years

Previous cleaning activity

- o No cleaning on record

Condition

- o 11-25% restriction, mucky

Condition of PM residuals

- o Moist

Dimensions and volume

Surface area of 18,596 ft², volume of 111,576ft³ (est.)

Description of flow to catch basin

- o Direct runoff, culvert discharge from road

Description of sampling method

- o Composite

Traffic estimate (ADT)

- o 13598

Approx. weight of recovered sample

- o 6.35lbs

Description of sample and COC

- o Coarse sand
- o COC provided on 05/13/2009



ADT : average daily traffic

CB : catch basin

COC : chain of custody

H : highway land use

HC : Hillsborough County

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

FIELD INFORMATION - HILLSBOROUGH COUNTY (HC - CB - H - OUT - 3)

Sample identification

- o HC – CB – H – OUT – 3

Jurisdiction

- o Hillsborough County

Land use zoning

- o RSC-6

Location

- o 7806 Gibsonton Dr.

Co-ordinates

- o 27 50.995' N and 82 22.019' W

Date and time (with previous dry hours)

- o 5/11/2009 1:39 PM
- o pdh ~480

Sampling personnel

- o Kevin King

Description of catchment

Cover information

- o None

Potential constraints to property access

- o None

Typical geometry and R/W section

- o A 70' wide, 5-lane roadway that crowns with curb and gutter, no median, a transverse slope of 2.6% and a longitudinal slope of 0.3%

Run-on conditions

- o Grass, asphalt

Reclaimed water application

- o No

Basic description of soil type

- o Smyrna fine sand

Drainage appurtenances in the area

- o Ditch, curb inlet, concrete culvert

Significant features influencing PM, N, P load

- o Adjacent residential bahia grass, inlet surrounded by bahia

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Ditch bottom inlet

Approximate age

- o 35-40 years

Previous cleaning activity

- o No cleaning on record

Condition

- o 11-25% surface or subsurface restriction

Condition of PM residuals

- o Moist

Dimensions and volume

- o 36 in (w) x 54 in (l) x 31 in (d)
Volume of 60,264 in³

Description of flow to catch basin

- o Direct runoff, culvert discharge from road

Description of sampling method

- o Composite

Traffic estimate (ADT)

- o 9347

Approx. weight of recovered sample

- o 3.95lbs

Description of sample and COC

- o Sand and organic matter
- o COC provided on 05/13/2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
HC : Hillsborough County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - HILLSBOROUGH COUNTY (HC - CB - R - OUT - 1)

Sample identification

- o HC – CB – R – OUT – 1

Jurisdiction

- o Hillsborough County

Land use zoning

- o RSC-9

Location

- o 6202 N Hale Ave.

Co-ordinates

- o 28 0.207' N and 82 30.661' W

Date and time (with previous dry hours)

- o 5/11/2009 9:40 AM
- o pdh ~504

Sampling personnel

- o John McGee

Description of catchment

Cover information

- o 60% oaks

Potential constraints to property access

- o None

Typical geometry and R/W section

- o A 36' wide, 2-lane roadway that crowns with curb and gutter, no median, a transverse slope of 5.2% and a longitudinal slope of 0.6%

Run-on conditions

- o Grass, asphalt

Reclaimed water application

- o No

Basic description of soil type

- o Myakka urban land complex

Drainage appurtenances in the area

- o Miami curb, curb inlet

Significant features influencing PM, N, P load

- o Older, lower income residential area

Predominant PM, N, and P sources

- o Anthropogenic and Biogenic

Description of catch basin

Type

- o Curb inlet

Approximate age

- o 20-25 years

Previous cleaning activity

- o No cleaning on record

Condition

- o Clear

Condition of PM residuals

- o Moist

Dimensions and volume

- o 51 in (w) x 30 in (l) x 48 in (d)
Volume of 73,440 in³

Description of flow to catch basin

- o Direct runoff

Description of sampling method

- o Composite

Traffic estimate (ADT)

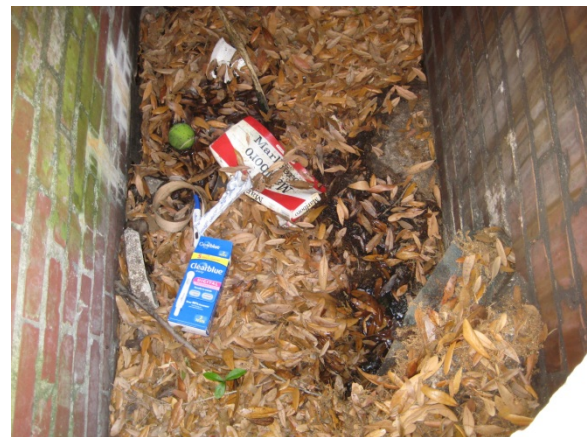
- o 780

Approx. weight of recovered sample

- o 2.7lbs

Description of sample and COC

- o Semi/decomposed organic matter, some sandy soil
- o COC provided on 05/13/2009



ADT : average daily traffic

CB : catch basin

COC : chain of custody

HC : Hillsborough County

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

FIELD INFORMATION - HILLSBOROUGH COUNTY (HC - CB - R - OUT - 2)

Sample identification

- o HC – CB – R – OUT – 2

Jurisdiction

- o Hillsborough County

Land use zoning

- o PD

Location

- o 3401 High Hampton Circle

Co-ordinates

- o 27 58.452' N and 82 19.118' W

Date and time (with previous dry hours)

- o 5/11/2009 11:34 AM

- o pdh ~648

Sampling personnel

- o Kevin King

Description of catchment

Cover information

- o 20% oaks

Potential constraints to property access

- o None

Typical geometry and R/W section

- o A 36' wide, 2-lane roadway that crowns with curb and gutter, no median, a transverse slope of 3.0% and a longitudinal slope of 0.3%

Run-on conditions

- o Grass, asphalt

Reclaimed water application

- o No

Basic description of soil type

- o Basinger, Holopaw, and Samsula depressional

Drainage appurtenances in the area

- o Concrete culvert, ditch

Significant features influencing PM, N, P load

- o High travelled rural road

Predominant PM, N, and P sources

- o Anthropogenic and Biogenic

Description of catch basin

Type

- o Ditch bottom inlet

Approximate age

- o 5-10 years

Previous cleaning activity

- o Cleaned 10/31/08

Condition

- o Fairly clear

Condition of PM residuals

- o Dry

Dimensions and volume

- o 54 in (w) x 35.5 in (l) x 39 in (d)
Volume of 74,763 in³

Description of flow to catch basin

- o Direct runoff, culvert discharge from road and grass

Description of sampling method

- o Composite

Traffic estimate (ADT)

- o 4202

Approx. weight of recovered sample

- o 6.3lbs

Description of sample and COC

- o Sand
- o COC provided on 05/13/2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
HC : Hillsborough County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - HILLSBOROUGH COUNTY (HC - CB - R - OUT - 3)

Sample identification

- o HC – CB – R – OUT – 3

Jurisdiction

- o Hillsborough County

Land use zoning

- o RSC-6

Location

- o 1702 New Bedford Dr.

Co-ordinates

- o 27 42.480' N and 82 21.310' W

Date and time (with previous dry hours)

- o 5/11/2009 3:00 PM
- o pdh ~648

Sampling personnel

- o John McGee

Description of catchment

Cover information

- o None

Potential constraints to property access

- o None

Typical geometry and R/W section

- o A 36' wide, 2-lane roadway that crowns with curb and gutter, no median, a transverse slope of 3.0% and a longitudinal slope of 1.1%

Run-on conditions

- o Bermuda grass lawns, painted concrete

Reclaimed water application

- o No

Basic description of soil type

- o Urban land

Drainage appurtenances in the area

- o Curb and gutter, concrete culvert, and curb inlet

Significant features influencing PM, N, P load

- o Golf course nearby, older community, mostly Bermuda grass

Predominant PM, N, and P sources

- o Anthropogenic and Biogenic

Description of catch basin

Type

- o Curb inlet

Approximate age

- o 35-40 years

Previous cleaning activity

- o No cleaning on record

Condition

- o Mostly clear

Condition of PM residuals

- o Moist

Dimensions and volume

- o 32 in (w) x 48.5 in (l) x 34 in (d)
Volume of 52,768 in³

Description of flow to catch basin

- o Direct runoff, culvert discharge from road

Description of sampling method

- o Composite

Traffic estimate (ADT)

- o 1980

Approx. weight of recovered sample

- o 6.55lbs

Description of sample and COC

- o Sand, gravel, organic material
- o COC provided on 05/13/2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
HC : Hillsborough County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - HILLSBOROUGH (HC - SS - C - OUT - 1)

Sample ID

- o HC – SS – C – OUT – 1

Jurisdiction

- o Hillsborough

Land Use Zoning

- o Commercial

Location

- o Hoover Blvd. north of Hillsborough Ave.

Co-ordinates

- o -82 32.0282/ 27 59.7898

Date and Time (with Previous Dry Hours)

- o 01/06/2010 10:30 AM
- o ~120

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Asphalt, 20-25 years old

Typical Geometry and R/W Section

- o Transverse slope of 2.7% and a longitudinal slope of 0.2%. A 78 ft wide, 4 lane roadway that crowns with a grass median

Run-on Conditions

- o Highway, parking lot, office park landscaping

Drainage Appurtenances in the Catchment Area

- o Curb and gutter

Significant Features that may affect PM, N and P loadings

- o Major airport nearby

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper.

Dimensions of Area Cleaned

- o 10 foot width for one block

Previous Cleaning Activity

- o 06.25.2002

Traffic Estimate (ADT)

- o 19,266

Approx. Weight of Recovered Sample

- o ~6.5 lbs.

Description of Sample and COC

- o Dry
- o COC provided on 01/06/2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
HC : Hillsborough County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - HILLSBOROUGH (HC - SS - C - OUT - 2)

Sample ID

- o HC – SS – C – OUT – 2

Jurisdiction

- o Hillsborough

Land Use Zoning

- o Commercial

Location

- o E Hillsborough Ave. east of 50th St.

Co-ordinates

- o -82 24.0971/ 27 59.7645

Date and Time (with Previous Dry Hours)

- o 01/06/2010 10:30 AM
- o ~120

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Concrete and asphalt, 45-50 years old

Typical Geometry and R/W Section

- o Transverse slope of 2.2% and a longitudinal slope of 0.6%. A 78 wide, 4 lane roadway that crowns with a concrete median.

Run-on Conditions

- o Highway, parking lot, office park landscaping

Drainage Appurtenances in the Catchment Area

- o Curb and gutter

Significant Features that may affect PM, N and P loadings

- o Major airport nearby

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper.

Dimensions of Area Cleaned

- o 10 foot width for one block

Previous Cleaning Activity

- o 06.25.2002

Traffic Estimate (ADT)

- o 23,748

Approx. Weight of Recovered Sample

- o ~6.5 lbs.

Description of Sample and COC

- o Dry
- o COC provided on 01/06/2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
HC : Hillsborough County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - HILLSBOROUGH (HC - SS - C - OUT - 3)

Sample ID

- o HC – SS – C – OUT – 3

Jurisdiction

- o Hillsborough

Land Use Zoning

- o Commercial

Location

- o N Nebraska Ave north of E Fowler Ave

Co-ordinates

- o -82 27.069203/ 28 3.552188

Date and Time (with Previous Dry Hours)

- o 07/20/2010 8:00 AM
- o ~24

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Friction course 3 asphalt, 4 years old

Typical Geometry and R/W Section

- o Transverse slope 3.0%, longitudinal slope of 2.2%, Four 11' lanes (44 feet of roadway, 19 foot median) roadway crowns with a concrete median

Run-on Conditions

- o Commercial, Public Storage, retail, car dealership

Drainage Appurtenances in the Catchment Area

- o Curb and gutter

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper.

Dimensions of Area Cleaned

- o 10 foot wide strip for 1,171 feet.

Previous Cleaning Activity

- o 07.19.2010

Traffic Estimate (ADT)

- o 25,500

Approx. Weight of Recovered Sample

- o ~5.64 lbs.

Description of Sample and COC

- o Dry sandy sediments
- o COC provided on 07/22/2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
HC : Hillsborough County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - HILLSBOROUGH (HC - SS - H - OUT - 1)

Sample ID

- o HC – SS – H – OUT – 1

Jurisdiction

- o Hillsborough

Land Use Zoning

- o Highway

Location

- o R-6 on south, P/QP and R-20 on north

Co-ordinates

- o -82 29.269/ 28 1.5206

Date and Time (with Previous Dry Hours)

- o 01/06/2010 9:45 AM
- o ~96

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Asphalt, 25-30 years old

Typical Geometry and R/W Section

- o Transverse slope of 5.1% and a longitudinal slope of 1%. A 78 ft wide, 4 lane roadway that crowns with a concrete median.

Run-on Conditions

- o Highway. Mixed use, churches, apartments, retail.

Drainage Appurtenances in the Catchment Area

- o Curb and gutter

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper.

Dimensions of Area Cleaned

- o 10 foot width for 1297 feet

Previous Cleaning Activity

- o Unknown

Traffic Estimate (ADT)

- o 16439

Approx. Weight of Recovered Sample

- o ~6.5 lbs.

Description of Sample and COC

- o Dry sandy sediments
- o COC provided on 01/08/2010



ADT	: average daily traffic
COC	: chain of custody
H	: highway land use
HC	: Hillsborough County
N	: nitrogen
OUT	: outside reclaimed water area
P	: phosphorus
pdh	: previous dry hours
PM	: particulate matter
R/W	: right of way
SS	: street sweeping

FIELD INFORMATION - HILLSBOROUGH (HC - SS - H - OUT - 2)

Sample ID

- o HC – SS – H – OUT – 2

Jurisdiction

- o Hillsborough

Land Use Zoning

- o Highway

Location

- o Fletcher Ave east of Bruce B Down Blvd.

Co-ordinates

- o -82 25.5543/ 28 4.1468

Date and Time (with Previous Dry Hours)

- o 01/06/2010 11:10 AM
- o ~456

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Asphalt, 35-40 years old

Typical Geometry and R/W Section

- o Transverse slope of 1.5% and a longitudinal slope of 0.6%. A 78 ft wide, 4 lane roadway that crowns with a concrete median.

Run-on Conditions

- o Highway. Mixed use, retail, medical, university

Drainage Appurtenances in the Catchment Area

- o Curb and gutter

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper.

Dimensions of Area Cleaned

- o 10 foot width for 1 block

Previous Cleaning Activity

- o Unknown

Traffic Estimate (ADT)

- o 51369

Approx. Weight of Recovered Sample

- o ~6.5 lbs.

Description of Sample and COC

- o Dry sandy sediments
- o COC provided on 01/08/2010



ADT : average daily traffic
COC : chain of custody
H : highway land use
HC : Hillsborough County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - HILLSBOROUGH (HC - SS - H - OUT - 3)

Sample ID

- o HC – SS – H – OUT – 3

Jurisdiction

- o Hillsborough

Land Use Zoning

- o Highway

Location

- o N Dale Mabry north of W Hillsborough Ave

Co-ordinates

- o -82 30.306026/ 28 0.035747

Date and Time (with Previous Dry Hours)

- o 07/20/2010 10:00 AM
- o ~24

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Friction course 2 asphalt, resurfacing began on 5/10/10

Typical Geometry and R/W Section

- o Transverse slope of 2.5% and a longitudinal slope of 0.2%. Six 12 foot lanes (72 foot roadway), 14 foot median. Roadway crowns with no median

Run-on Conditions

- o Highway. Car dealerships, shopping center

Drainage Appurtenances in the Catchment Area

- o Drains: Curb and gutter

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper.

Dimensions of Area Cleaned

- o 10 foot wide strip for 1,500 feet

Previous Cleaning Activity

- o 07/19/10

Traffic Estimate (ADT)

- o 76,500

Approx. Weight of Recovered Sample

- o ~4.89 lbs.

Description of Sample and COC

- o Dry sandy sediments
- o COC provided on 07/22/2010



ADT : average daily traffic
COC : chain of custody
H : highway land use
HC : Hillsborough County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - HILLSBOROUGH (HC - SS - R - OUT - 1)

Sample ID

- o HC – SS – R – OUT – 1

Jurisdiction

- o Hillsborough

Land Use Zoning

- o Residential

Location

- o Hanna Ave west of Grady Ave.

Co-ordinates

- o -82 31.0435/ 28 0.2142

Date and Time (with Previous Dry Hours)

- o 01/06/2010 8:45 AM
- o ~96

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Asphalt, 30-40 years old

Typical Geometry and R/W Section

- o A transverse slope of 5.2% and a longitudinal slope of 0.6%. A 36 ft. wide, 2 lane roadway that crowns, without a median

Run-on Conditions

- o Residential landscaping, not highly manicured

Drainage Appurtenances in the Catchment Area

- o Curb and gutter

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper.

Dimensions of Area Cleaned

- o 10 foot width for 2,654 ft.

Previous Cleaning Activity

- o Unknown

Traffic Estimate (ADT)

- o 380

Approx. Weight of Recovered Sample

- o ~6.5 lbs.

Description of Sample and COC

- o Dry sandy sediments, some organics
- o COC provided on 01/08/2010



ADT	: average daily traffic
COC	: chain of custody
HC	: Hillsborough County
N	: nitrogen
OUT	: outside reclaimed water area
P	: phosphorus
pdh	: previous dry hours
PM	: particulate matter
R	: residential land use
R/W	: right of way
SS	: street sweeping

FIELD INFORMATION - HILLSBOROUGH (HC - SS - R - OUT - 2)

Sample ID

- o HC – SS – R – OUT – 2

Jurisdiction

- o Hillsborough

Land Use Zoning

- o Residential

Location

- o Orient Rd north of Interstate 4

Co-ordinates

- o -82 22.3839/ 27 59.4365

Date and Time (with Previous Dry Hours)

- o 01/06/2010 12:50 PM
- o ~96

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Asphalt, 30-35 years old

Typical Geometry and R/W Section

- o A transverse slope of 1.7% and a longitudinal slope of 0.4%. A 78 ft. wide, 4 lane roadway that crowns with a grass median

Run-on Conditions

- o Residential landscaping, medians are FL friendly, mulched.

Drainage Appurtenances in the Catchment Area

- o Curb and gutter

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper.

Dimensions of Area Cleaned

- o 10 foot width for 1909 ft.

Previous Cleaning Activity

- o Unknown

Traffic Estimate (ADT)

- o 1265

Approx. Weight of Recovered Sample

- o ~6.5 lbs.

Description of Sample and COC

- o Dry sandy sediments, some organics
- o COC provided on 01/06/2010



ADT	: average daily traffic
COC	: chain of custody
HC	: Hillsborough County
N	: nitrogen
OUT	: outside reclaimed water area
P	: phosphorus
pdh	: previous dry hours
PM	: particulate matter
R	: residential land use
R/W	: right of way
SS	: street sweeping

FIELD INFORMATION - HILLSBOROUGH (HC - SS - R - OUT - 3

Sample ID

- o HC – SS –R – OUT – 3

Jurisdiction

- o Hillsborough

Land Use Zoning

- o Residential

Location

- o N Habana Place

Co-ordinates

- o -82 27.069203/ 28 3.552188

Date and Time (with Previous Dry Hours)

- o 07/20/2010 9:15 AM
- o ~24

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Asphalt, 20-25 years old

Typical Geometry and R/W Section

- o A transverse slope of 4.5% and a longitudinal slope of 0.2%. A 36 ft. wide, 2 lane roadway that crowns without a median

Run-on Conditions

- o Residential landscaping

Drainage Appurtenances in the Catchment Area

- o Curb and gutter

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper.

Dimensions of Area Cleaned

- o 10 foot width for 1288 ft.

Previous Cleaning Activity

- o Unknown

Traffic Estimate (ADT)

- o 320

Approx. Weight of Recovered Sample

- o ~4.25 lbs.

Description of Sample and COC

- o Dry sandy sediments, some organics
- o COC provided on 07/22/2010



ADT : average daily traffic
COC : chain of custody
HC : Hillsborough County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping

JACKSONVILLE

(JAX)

FIELD INFORMATION - JACKSONVILLE (JAX - BMP - C - OUT -1)

Sample identification

- o JAX - BMP - C - OUT -1

Jurisdiction

- o City of Jacksonville

Land use zoning

- o Commercial

Location

- o 11751 McCormick Road

Co-ordinates

- o 30° 21' 36.945" N 81° 30' 25.532" W

Date and time (with previous dry hours)

- o 12/16/2009 11:00 AM
- o pdh ~ 72

Sampling personnel

- o Barry Cotter and Kehinde Adeshile

Description of catchment

Cover information

- o Impervious surface in good condition and frontage of properties slope towards roadway. Asphalt pavement built in 2006.

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Average cross slope: 2.0%, average longitudinal slope: 0.5%

Run-on conditions

- o Run-offs from roadway and properties' frontage flow to the edge of roadway into drainage system.

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand and gravel

Drainage appurtenances in the area

- o Catch basins, reinforced concrete pipes and ponds

Significant features influencing PM, N, P load

- o Leaf litter, trash, and sediment

Predominant PM, N, and P sources

- o Leaf litter, trash, and sediment

Description of BMP

Type

- o 24-inch reinforced concrete pipe

Approximate age

- o ~3 years

Previous cleaning activity

- o Maintenance – As needed

Condition

- o Good condition

Condition of PM residuals

- o Moist

Dimensions and volume

- o 24 inch reinforced concrete pipe

Description of flow to BMP

- o Discharge from upstream pipes

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 16,600

Approx. weight of recovered sample

- o <50 lbs.

Description of sample and COC

- o Grab sample; moist particulate matter
- o COC provided on 12/17/09



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - JACKSONVILLE (JAX - BMP - C - OUT -2)

Sample identification

- o JAX - BMP - C - OUT -2

Jurisdiction

- o City of Jacksonville

Land use zoning

- o Commercial

Location

- o 1500 San Marco Blvd./Lasalle

Co-ordinates

- o 30° 18' 37.195" N 81° 39' 37.625" W

Date and time (with previous dry hours)

- o 01/28/2010 4:49 PM
- o pdh ~ 72

Sampling personnel

- o Barry Cotter and Kehinde Adeshile

Description of catchment

Cover information

- o Impervious surface in good condition and frontage of properties slope towards roadway. Asphalt resurfaced on 04/25/2006

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Average cross slope: 3.0%, average longitudinal slope: 0.5%

Run-on conditions

- o Run-offs from roadway and properties' frontage flow to the edge of roadway into drainage system.

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand and gravel

Drainage appurtenances in the area

- o Catch basins and reinforced concrete pipes

Significant features influencing PM, N, P load

- o Leaf litter, trash, and sediment

Predominant PM, N, and P sources

- o Leaf litter, trash, and sediment

Description of BMP

Type

- o 12-inch reinforced concrete pipe

Approximate age

- o ~10 years

Previous cleaning activity

- o Maintenance – As needed

Condition

- o Good condition

Condition of PM residuals

- o Moist

Dimensions and volume

- o 12 inch reinforced concrete pipe

Description of flow to BMP

- o Discharge from upstream pipes

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 21,141

Approx. weight of recovered sample

- o <50 lbs.

Description of sample and COC

- o Grab sample; moist particulate matter
- o COC provided on 01/28/10



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - JACKSONVILLE (JAX - BMP - C - OUT -3)

Sample identification

- o JAX - BMP - C - OUT -3

Jurisdiction

- o City of Jacksonville

Land use zoning

- o Commercial

Location

- o 1005 Riverside/Post Street

Co-ordinates

- o 30° 18' 49.362" N 81° 40' 40.185" W

Date and time (with previous dry hours)

- o 02/24/2010 3:30 PM
- o pdh ~ 6

Sampling personnel

- o Barry Cotter and Kehinde Adeshile

Description of catchment

Cover information

- o Impervious surface in good condition and frontage of properties slope towards roadway.

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Average cross slope: 2.0%, average longitudinal slope: 0.5%

Run-on conditions

- o Run-offs from roadway and properties' frontage flow to the edge of roadway into drainage system.

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand and gravel

Drainage appurtenances in the area

- o Catch basins and reinforced concrete pipes

Significant features influencing PM, N, P load

- o Leaf litter, trash, and sediment

Predominant PM, N, and P sources

- o Leaf litter, trash, and sediment

Description of BMP

Type

- o 3-compartments baffle box

Approximate age

- o ~9 years

Previous cleaning activity

- o Maintenance – As needed

Condition

- o Good condition

Condition of PM residuals

- o Moist

Dimensions and volume

- o (Inside Dimensions): 7.5 ft high, 20 ft wide, 10ft deep; 36-inch RCP inlet, 36-inch RCP outlet and 2 Manholes on top

Description of flow to BMP

- o Discharge from upstream pipes

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 12,500

Approx. weight of recovered sample

- o <50 lbs.

Description of sample and COC

- o Grab sample; moist particulate matter
- o COC provided on 02.24.2010



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - JACKSONVILLE (JAX - BMP - H - OUT -1)

Sample identification

- o JAX - BMP - H - OUT -1

Jurisdiction

- o City of Jacksonville

Land use zoning

- o Highway

Location

- o 1400-1509 University Blvd./Macy Ave.

Co-ordinates

- o 30° 20' 6.144" N 81° 36' 10.153" W

Date and time (with previous dry hours)

- o 12/16/2009 3:30 PM
- o pdh ~ 72

Sampling personnel

- o Barry Cotter and Kehinde Adeshile

Description of catchment

Cover information

- o Impervious surface in good condition and frontage of properties slope towards roadway. Asphalt resurfaced in 1995.

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Average cross slope: 2.0%, average longitudinal slope: 0.5%

Run-on conditions

- o Run-offs from roadway and properties' frontage flow to the edge of roadway into drainage system.

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand and gravel

Drainage appurtenances in the area

- o Catch basins and reinforced concrete pipes

Significant features influencing PM, N, P load

- o Leaf litter, trash, and sediment

Predominant PM, N, and P sources

- o Leaf litter, trash, and sediment

Description of BMP

Type

- o 15-inch reinforced concrete pipe

Approximate age

- o ~17 years

Previous cleaning activity

- o Maintenance – As needed

Condition

- o Good condition

Condition of PM residuals

- o Moist

Dimensions and volume

- o 15-inch reinforced concrete pipe, 36-inch grate inlet

Description of flow to BMP

- o Discharge from upstream pipes

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 26,500

Approx. weight of recovered sample

- o <20 lbs.

Description of sample and COC

- o Grab sample; moist particulate matter
- o COC provided on 12.16.2009



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - JACKSONVILLE (JAX - BMP - H - OUT -2)

Sample identification

- o JAX - BMP - H - OUT -2

Jurisdiction

- o City of Jacksonville

Land use zoning

- o Highway

Location

- o 3000 Phillips Hwy/St. Augustine Road

Co-ordinates

- o 30° 17' 53.269" N 81° 38' 28.396" W

Date and time (with previous dry hours)

- o 01/28/2010 3:39 PM
- o pdh ~ 72

Sampling personnel

- o Barry Cotter and Kehinde Adeshile

Description of catchment

Cover information

- o Impervious surface in good condition and frontage of properties slope towards roadway. Asphalt resurfaced in 1999.

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Average cross slope: 2.0%, average longitudinal slope: 0.5%

Run-on conditions

- o Run-offs from roadway and properties' frontage flow to the edge of roadway into drainage system.

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand and gravel

Drainage appurtenances in the area

- o Catch basins and reinforced concrete pipes

Significant features influencing PM, N, P load

- o Leaf litter, grass clippings, trash, and sediment

Predominant PM, N, and P sources

- o Leaf litter, grass clippings, trash, and sediment

Description of BMP

Type

- o 20-inch reinforced concrete pipe

Approximate age

- o ~10 years

Previous cleaning activity

- o Maintenance – As needed

Condition

- o Good condition

Condition of PM residuals

- o Moist

Dimensions and volume

- o 20-inch reinforced concrete pipe

Description of flow to BMP

- o Discharge from upstream pipes

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 22,500

Approx. weight of recovered sample

- o <20 lbs.

Description of sample and COC

- o Grab sample; moist particulate matter
- o COC provided on 01/28/2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - JACKSONVILLE (JAX - BMP - H - OUT -3)

Sample identification

- o JAX - BMP - H - OUT -3

Jurisdiction

- o City of Jacksonville

Land use zoning

- o Highway

Location

- o 98 Independent Drive West/Laura Street

Co-ordinates

- o 30° 19' 31.656" N 81° 39' 35.229" W

Date and time (with previous dry hours)

- o 02/24/2010 3:00 PM
- o pdh ~ 6

Sampling personnel

- o Barry Cotter and Kehinde Adeshile

Description of catchment

Cover information

- o Impervious surface in good condition and frontage of properties slope towards roadway. Pavement approximately more than 10 years old.

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Average cross slope: 2.0%, average longitudinal slope: 0.5%

Run-on conditions

- o Run-offs from roadway and properties' frontage flow to the edge of roadway into drainage system.

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand and gravel

Drainage appurtenances in the area

- o Catch basins and reinforced concrete pipes

Significant features influencing PM, N, P load

- o Leaf litter, trash, and sediment

Predominant PM, N, and P sources

- o Leaf litter, trash, and sediment

Description of BMP

Type

- o 18-inch reinforced concrete pipe

Approximate age

- o ~10 years

Previous cleaning activity

- o Maintenance – As needed

Condition

- o Good condition

Condition of PM residuals

- o Moist

Dimensions and volume

- o 18-inch reinforced concrete pipe

Description of flow to BMP

- o Discharge from upstream pipes

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 9,485

Approx. weight of recovered sample

- o <100 lbs.

Description of sample and COC

- o Grab sample; moist particulate matter
- o COC provided on 02/24/2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - JACKSONVILLE (JAX - BMP - R - OUT -1)

Sample identification

- o JAX - BMP - R - OUT -1

Jurisdiction

- o City of Jacksonville

Land use zoning

- o Residential

Location

- o 7900 Lone Star Road/Sunnymeade Dr.

Co-ordinates

- o 30° 20' 15.199" N 81° 34' 34.878" W

Date and time (with previous dry hours)

- o 12/16/2009 11:20 AM

- o pdh ~ 72

Sampling personnel

- o Barry Cotter and Kehinde Adeshile

Description of catchment

Cover information

- o Impervious surface in good condition and frontage of properties slope towards roadway.

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Average cross slope: 3.0%, average longitudinal slope: 0.5%

Run-on conditions

- o Run-offs from roadway and properties' frontage flow to the edge of roadway into drainage system.

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand and gravel

Drainage appurtenances in the area

- o Catch basins and reinforced concrete pipes

Significant features influencing PM, N, P load

- o Leaf litter, trash, and sediment

Predominant PM, N, and P sources

- o Leaf litter, trash, and sediment

Description of BMP

Type

- o 18-inch reinforced concrete pipe

Approximate age

- o ~10 years

Previous cleaning activity

- o Maintenance – As needed

Condition

- o Good condition

Condition of PM residuals

- o Moist

Dimensions and volume

- o 18-inch reinforced concrete pipe

Description of flow to BMP

- o Discharge from upstream pipes

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 7,260

Approx. weight of recovered sample

- o <50 lbs.

Description of sample and COC

- o Grab sample; moist particulate matter
- o COC provided on 12.16.09



ADT : average daily traffic

BMP : best management practice

COC : chain of custody

JAX : Jacksonville

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

FIELD INFORMATION - JACKSONVILLE (JAX - BMP - R - OUT -2)

Sample identification

- o JAX - BMP - R - OUT -2

Jurisdiction

- o City of Jacksonville

Land use zoning

- o Residential

Location

- o 2187 Inwood Terrace/Inwood Circle West

Co-ordinates

- o 30° 17' 25.772" N 81° 38' 24.961" W

Date and time (with previous dry hours)

- o 12/16/2009 5:00 PM
- o pdh ~ 72

Sampling personnel

- o Barry Cotter and Kehinde Adeshile

Description of catchment

Cover information

- o Impervious surface in good condition and frontage of properties slope towards roadway.

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Average cross slope: 3.0%, average longitudinal slope: 0.5%

Run-on conditions

- o Run-offs from roadway and properties' frontage flow to the edge of roadway into drainage system.

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand and gravel

Drainage appurtenances in the area

- o Catch basins and reinforced concrete pipes

Significant features influencing PM, N, P load

- o Leaf litter, trash, and sediment

Predominant PM, N, and P sources

- o Leaf litter, trash, and sediment

Description of BMP

Type

- o 30-inch reinforced concrete pipe

Approximate age

- o ~10 years

Previous cleaning activity

- o Maintenance – As needed

Condition

- o Good condition

Condition of PM residuals

- o Moist

Dimensions and volume

- o 30-inch reinforced concrete pipe

Description of flow to BMP

- o Discharge from upstream pipes

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 345

Approx. weight of recovered sample

- o <50 lbs.

Description of sample and COC

- o Grab sample; moist particulate matter
- o COC provided on 12.16.2009

ADT : average daily traffic

BMP : best management practice

COC : chain of custody

JAX : Jacksonville

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

FIELD INFORMATION - JACKSONVILLE (JAX - BMP - R - OUT -3)

Sample identification

- o JAX - BMP - R - OUT -3

Jurisdiction

- o City of Jacksonville

Land use zoning

- o Residential

Location

- o 2165 River Boulevard/Copeland Street

Co-ordinates

- o 30° 18' 1.896" N 81° 39' 20.364" W

Date and time (with previous dry hours)

- o 02/24/2010 4:55 PM
- o pdh ~ 6

Sampling personnel

- o Barry Cotter and Kehinde Adeshile

Description of catchment

Cover information

- o Impervious surface in good condition and frontage of properties slope towards roadway.

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Average cross slope: 3.0%, average longitudinal slope: 0.5%

Run-on conditions

- o Run-offs from roadway and properties' frontage flow to the edge of roadway into drainage system. Asphalt pavement resurfaced on 02/04/1997

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand and gravel

Drainage appurtenances in the area

- o Catch basins and reinforced concrete pipes

Significant features influencing PM, N, P load

- o Leaf litter, trash, and sediment

Predominant PM, N, and P sources

- o Leaf litter, trash, and sediment

Description of BMP

Type

- o 3-compartments baffle-box

Approximate age

- o ~10 years

Previous cleaning activity

- o Maintenance – As needed

Condition

- o Good condition

Condition of PM residuals

- o Moist

Dimensions and volume

- o (Inside Dimensions): Height = 6.25ft, Width = 12ft, Depth = 8ft; 24-inch RCP inlet, 30-inch RCP outlet and 2 Manholes on top

Description of flow to BMP

- o Discharge from upstream pipes

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 383

Approx. weight of recovered sample

- o <50 lbs.

Description of sample and COC

- o Grab sample; moist particulate matter
- o COC provided on 2.25.10



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - JACKSONVILLE (JAX - CB - C - OUT - 1)

Sample identification

- o JAX – CB – C – OUT – 1

Jurisdiction

- o City of Jacksonville

Land use zoning

- o Commercial

Location

- o 11751 McCormick Rd. and Monument Rd.

Co-ordinates

- o 30° 21' 36.945"N and 81° 30' 25.532"W

Date and time (with previous dry hours)

- o 12/16/2009 10:35 AM
- o pdh ~ 72

Sampling personnel

- o Barry Cotter and Kehinde Adeshile

Description of catchment

Cover information

- o Asphalt pavement roadway with curbs and gutters. Dense tree canopies; very little concrete side-walks on both sides of the roadway and grassy areas adjacent to the side-walks

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Average cross slope of 2.0%, Average longitudinal slope of 0.5%

Run-on conditions

- o Run-offs from roadway and properties

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand and gravel

Drainage appurtenances in the area

- o CBs, reinforced concrete pipes

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Leaf litter, trash, and sediment

Description of catch basin

Type

- o Catch basin, type 5 FDOT curb inlet

Approximate age

- o 4 years

Previous cleaning activity

- o Maintenance as needed

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to catch basin

- o Discharge from upstream pipes

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 16600

Approx. weight of recovered sample

- o < 50 lbs

Description of sample and COC

- o Moist PM
- o COC provided on 12.16.09



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - JACKSONVILLE (JAX - CB - C - OUT - 2)

Sample identification

- o JAX – CB – C – OUT – 2

Jurisdiction

- o City of Jacksonville

Land use zoning

- o Commercial

Location

- o 1200 San Marco Boulevard and Gray St.

Co-ordinates

- o 30° 18' 49.363"N and 81° 39' 38.266"W

Date and time (with previous dry hours)

- o 12/16/2009 3:35 PM

- o pdh ~ 72

Sampling personnel

- o Barry Cotter and Kehinde Adeshile

Description of catchment

Cover information

- o Asphalt pavement roadway with curbs and gutters. Dense tree canopies; very little concrete side-walks on both sides of the roadway and grassy areas adjacent to the side-walks

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Average cross slope of 3.0%, Average longitudinal slope of 0.5%

Run-on conditions

- o Run-offs from roadway and properties

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand and gravel

Drainage appurtenances in the area

- o CBs, reinforced concrete pipes

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Leaf litter, trash, and sediment

Description of catch basin

Type

- o Catch basin (Plate D 201)

Approximate age

- o > 10 years

Previous cleaning activity

- o Maintenance as needed

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to catch basin

- o Discharge from upstream pipes

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 16600

Approx. weight of recovered sample

- o < 50 lbs

Description of sample and COC

- o Moist PM
- o COC provided on 12.16.09

ADT : average daily traffic

C : commercial land use

CB : catch basin

COC : chain of custody

JAX : Jacksonville

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

FIELD INFORMATION - JACKSONVILLE (JAX - CB - C - OUT - 3)

Sample identification

- o JAX – CB – C – OUT – 3

Jurisdiction

- o City of Jacksonville

Land use zoning

- o Commercial

Location

- o 341 Oak St. and Price St.

Co-ordinates

- o 30° 19' 21.775"N and 81° 40' 32.255"W

Date and time (with previous dry hours)

- o 2/24/2010 2:15 PM

- o Rained same day

Sampling personnel

- o Barry Cotter and Kehinde Adeshile

Description of catchment

Cover information

- o Asphalt pavement roadway with curbs and gutters. Dense tree canopies; very little concrete side-walks on both sides of the roadway and grassy areas adjacent to the roadways

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Average cross slope of 3.0%, Average longitudinal slope of 0.5%

Run-on conditions

- o Run-offs from roadway and properties

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand and gravel

Drainage appurtenances in the area

- o CBs, reinforced concrete pipes

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Leaf litter, trash, and sediment

Description of catch basin

Type

- o Catch basin (plate D 201)

Approximate age

- o > 10 years

Previous cleaning activity

- o Maintenance as needed

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to catch basin

- o Discharge from upstream pipes

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 211

Approx. weight of recovered sample

- o < 50 lbs

Description of sample and COC

- o Moist PM
- o COC provided on 02.24.2010



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - JACKSONVILLE (JAX - CB - H - OUT - 1)

Sample identification

- o JAX – CB – H – OUT – 1

Jurisdiction

- o City of Jacksonville

Land use zoning

- o Minor Arterial (Highway)

Location

- o 3901 Monument Rd. and Mission Hills Dr.

Co-ordinates

- o 30° 22' 13.595"N and 81° 30' 10.198"W

Date and time (with previous dry hours)

- o 12/16/2009 10:16 AM
- o pdh ~72

Sampling personnel

- o Barry Cotter and Kehinde Adeshile

Description of catchment

Cover information

- o Asphalt pavement roadway with curbs and gutters. Dense tree canopies; concrete side-walks on both sides of the roadway and grassy areas adjacent to the side-walks

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Average cross slope of 2.0%, Average longitudinal slope of 0.5%

Run-on conditions

- o Run-offs from roadway and properties

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand and gravel

Drainage appurtenances in the area

- o CBs and reinforced concrete pipes

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Leaf litter, trash, and sediment

Description of catch basin

Type

- o Catch basin (plate D 201)

Approximate age

- o 8 years

Previous cleaning activity

- o Maintenance as needed

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to catch basin

- o Discharge from upstream pipes

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 5733

Approx. weight of recovered sample

- o < 20 lbs

Description of sample and COC

- o Moist PM
- o COC provided on 12.16.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - JACKSONVILLE (JAX - CB - H - OUT - 2)

Sample identification

- o JAX – CB – H – OUT – 2

Jurisdiction

- o City of Jacksonville

Land use zoning

- o Minor Arterial (Highway)

Location

- o 1600 Atlanta Boulevard and Arcadia Pl.

Co-ordinates

- o 30° 18' 20.414" N and 81° 39' 5.959" W

Date and time (with previous dry hours)

- o 1/20/2010 3:58 PM

- o pdh ~72

Sampling personnel

- o Barry Cotter and Kehinde Adeshile

Description of catchment

Cover information

- o Asphalt pavement roadway with curbs and gutters. Dense tree canopies; concrete side-walks on both sides of the roadway and grassy areas adjacent to the side-walks

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Average cross slope of 3.0%, Average longitudinal slope of 0.5%

Run-on conditions

- o Run-offs from roadway and properties

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand and gravel

Drainage appurtenances in the area

- o CBs and reinforced concrete pipes

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Leaf litter, trash, and sediment

Description of catch basin

Type

- o Catch basin (plate D 201)

Approximate age

- o > 10 years

Previous cleaning activity

- o Maintenance as needed

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to catch basin

- o Discharge from upstream pipes

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 11333

Approx. weight of recovered sample

- o < 20 lbs

Description of sample and COC

- o Moist PM
- o COC provided on 1.28.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - JACKSONVILLE (JAX - CB - H - OUT - 3)

Sample identification

- o JAX – CB – H – OUT – 3

Jurisdiction

- o City of Jacksonville

Land use zoning

- o Minor Arterial (Highway)

Location

- o 2365 Riverside Ave. and Stockton St.

Co-ordinates

- o 30° 18' 35.830"N and 81° 41' 11.416"W

Date and time (with previous dry hours)

- o 2/24/2010 4:00 PM
- o pdh ~48

Sampling personnel

- o Barry Cotter and Kehinde Adeshile

Description of catchment

Cover information

- o Asphalt pavement roadway with curbs and gutters. Dense tree canopies; concrete side-walks on both sides of the roadway and grassy areas adjacent to the side-walks

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Average cross slope of 2.0%, Average longitudinal slope of 0.5%

Run-on conditions

- o Run-offs from roadway and properties

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand and gravel

Drainage appurtenances in the area

- o CBs and reinforced concrete pipes

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Leaf litter, trash, and sediment

Description of catch basin

Type

- o Catch basin (plate D 204)

Approximate age

- o > 10 years

Previous cleaning activity

- o Maintenance as needed

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to catch basin

- o Discharge from upstream pipes

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 12000

Approx. weight of recovered sample

- o < 20 lbs

Description of sample and COC

- o Moist PM
- o COC provided on 02.24.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - JACKSONVILLE (JAX - CB - R - OUT - 1)

Sample identification

- o JAX – CB – R – OUT – 1

Jurisdiction

- o City of Jacksonville

Land use zoning

- o Residential

Location

- o 12344 Fort Caroline and Monument Rd.

Co-ordinates

- o 30° 22' 45.584" N and 81° 30' 7.601" W

Date and time (with previous dry hours)

- o 12/16/2009 10:10 AM

- o pdh ~72

Sampling personnel

- o Barry Cotter and Kehinde Adeshile

Description of catchment

Cover information

- o Asphalt pavement roadway with some curbs and gutters. Many dense tree canopies; some concrete side-walks and grassy areas adjacent to the roadways

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Average cross slope of 3.0%, Average longitudinal slope of 0.5%

Run-on conditions

- o Run-offs from roadway and properties

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand and gravel

Drainage appurtenances in the area

- o CBs, reinforced concrete pipes, and ponds

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Leaf litter, trash, and sediment

Description of catch basin

Type

- o Catch basin, Type B city storm sewer (plate D 205)

Approximate age

- o > 10 years

Previous cleaning activity

- o Maintenance as needed

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to catch basin

- o Discharge from upstream pipes

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 6019

Approx. weight of recovered sample

- o ~ < 50 lbs

Description of sample and COC

- o Moist PM
- o COC provided on 12.16.2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - JACKSONVILLE (JAX - CB - R - OUT - 2)

Sample identification

- o JAX – CB – R – OUT – 2

Jurisdiction

- o City of Jacksonville

Land use zoning

- o Residential

Location

- o 1216 Lasalle St. and Belmonte Ave.

Co-ordinates

- o 30° 18' 31.615" N and 81° 39' 28.927" W

Date and time (with previous dry hours)

- o 12/16/2009 4:10 PM
- o pdh ~72

Sampling personnel

- o Barry Cotter and Kehinde Adeshile

Description of catchment

Cover information

- o Asphalt pavement roadway with curbs and gutters. Many dense tree canopies; some concrete side-walks and grassy areas adjacent to the roadways

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Average cross slope of 3.0%, Average longitudinal slope of 0.5%

Run-on conditions

- o Run-offs from roadway and properties

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand and gravel

Drainage appurtenances in the area

- o CBs, reinforced concrete pipes, and ponds

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Leaf litter, trash, and sediment

Description of catch basin

Type

- o City storm Sewer curb inlet (Plate D 201)

Approximate age

- o > 10 years

Previous cleaning activity

- o Maintenance as needed

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to catch basin

- o Discharge from upstream pipes

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 2137

Approx. weight of recovered sample

- o ~ < 50 lbs

Description of sample and COC

- o Moist PM
- o COC provided on 12.16.2009

ADT : average daily traffic

CB : catch basin

COC : chain of custody

JAX : Jacksonville

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

FIELD INFORMATION - JACKSONVILLE (JAX - CB - R - OUT - 3)

Sample identification

- o JAX – CB – R – OUT – 3

Jurisdiction

- o City of Jacksonville

Land use zoning

- o Residential

Location

- o 1557 Ingleside Ave. and Valencia Rd.

Co-ordinates

- o 30° 18' 0.322" N and 81° 42' 29.710" W

Date and time (with previous dry hours)

- o 2/22/2010 4:25 PM
- o Rained the same day

Sampling personnel

- o Barry Cotter and Kehinde Adeshile

Description of catchment

Cover information

- o Asphalt pavement roadway with curbs and gutters. Many dense tree canopies; some concrete side-walks and grassy areas adjacent to the roadways

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Average cross slope of 3.0%, Average longitudinal slope of 0.5%

Run-on conditions

- o Run-offs from roadway and properties

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand and gravel

Drainage appurtenances in the area

- o CBs, reinforced concrete pipes, and ponds

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Leaf litter, trash, and sediment

Description of catch basin

Type

- o Very old city storm sewer curb inlet

Approximate age

- o > 10 years

Previous cleaning activity

- o Maintenance as needed

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to catch basin

- o Discharge from upstream pipes

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 885

Approx. weight of recovered sample

- o ~ < 50 lbs

Description of sample and COC

- o Moist PM
- o COC provided on 2.25.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - JACKSONVILLE (JAX - SS - C - OUT - 1)

Sample ID

- o JAX – SS – C – OUT – 1

Jurisdiction

- o City of Jacksonville

Land Use Zoning

- o Commercial

Location

- o 1331 Prudential Drive/Flagler Ave.
(Neighbourhood: San Marco)

Co-ordinates

- o 30° 18' 58.940" N 81° 39' 25.677" W

Date and Time (with Previous Dry Hours)

- o 12/09/2009 10:00 am
- o Less than 0.01 inch of rain (trace of rain) on 12/08/09, the day before the sampling event; 1.38 inches of rain on (12/09/09), the sampling event day. Mostly cloudy and a fine, gentle, misty rain during the sampling event.

Sampling Personnel

- o Barry Cotter and Kehinde Adeshile

Description of Catchment

Pavement Type

- o Impervious surface in good condition and frontage of properties slope towards roadway; asphalt resurfaced in 2005

Typical Geometry and R/W Section

- o Average cross slope: 2.0%, Average longitudinal slope: 0.5%

Run-on Conditions

- o Run-offs from roadway and properties' frontage flow to the edge of roadway into drainage system

Drainage Appurtenances in the Catchment Area

- o Catch-basins and reinforced concrete pipes

Significant Features that may affect PM, N and P loadings

- o Leaf litter, grass clippings, trash, and sediment

Predominant Source

- o Neither is predominant

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o JHNSTON 3000, approximately 3 years

Dimensions of Area Cleaned

- o 1646.80 curb feet (one-way) X 4.71 ft
= 7,756.428 sq ft

Previous Cleaning Activity

- o Sweeping is normally done approximately every 6 to 8 weeks

Traffic Estimate (ADT)

- o 9,200

Approx. Weight of Recovered Sample

- o Approximately less than 30 lbs.

Description of Sample and COC

- o Grab sample; moist particulate matter
- o COC provided on 12.09.09



ADT : average daily traffic
C : commercial land use
COC : chain of custody
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - JACKSONVILLE (JAX - SS - C - OUT - 2)

Sample ID

- o JAX – SS – C – OUT – 2

Jurisdiction

- o City of Jacksonville

Land Use Zoning

- o Commercial

Location

- o 1001 Park Street/Post Street
(Neighbourhood: Riverside)

Co-ordinates

- o 30° 18' 52.311" N 81° 40' 50.936" W

Date and Time (with Previous Dry Hours)

- o 12/09/2009 11:47 am
- o Less than 0.01 inch of rain (trace of rain) on 12/08/09, the day before the sampling event; 1.38 inches of rain on (12/09/09), the sampling event day. Mostly cloudy and no rain during the sampling event.

Sampling Personnel

- o Barry Cotter and Kehinde Adeshile

Description of Catchment

Pavement Type

- o Impervious surface in good condition and frontage of properties slope towards the roadway; asphalt resurfaced on 09/09/2009

Typical Geometry and R/W Section

- o Average cross slope: 3.0%, Average longitudinal slope: 0.5%

Run-on Conditions

- o Run-offs from roadway and properties' frontage flow to the edge of roadway into drainage system

Drainage Appurtenances in the Catchment Area

- o Catch-basins and reinforced concrete pipes

Significant Features that may affect PM, N and P loadings

- o Leaf litter, grass clippings, trash, and sediment

Predominant Source

- o Neither is predominant

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o JHNSTON 3000, approximately 3 years

Dimensions of Area Cleaned

- o 1204.64 curb feet (one-way) X 4.71 ft
= 5,673.85 sq ft

Previous Cleaning Activity

- o Sweeping is normally done approximately every 6 to 8 weeks

Traffic Estimate (ADT)

- o 19,406

Approx. Weight of Recovered Sample

- o Approximately less than 30 lbs.

Description of Sample and COC

- o Grab sample; moist particulate matter
- o COC provided on 12.09.09



ADT : average daily traffic
C : commercial land use
COC : chain of custody
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - JACKSONVILLE (JAX - SS - C - OUT - 3)

Sample ID

- o JAX – SS – C – OUT – 3

Jurisdiction

- o City of Jacksonville

Land Use Zoning

- o Commercial

Location

- o 742 Arlington Road N/Arlington Expressway(Neighbourhood: Arlington)

Co-ordinates

- o 30° 19' 30.752" N 81° 35' 6.192" W

Date and Time (with Previous Dry Hours)

- o 1/28/2010 12:40 pm
- o Approximately 0.94 inch of rain on 1/25/10; and no rain on 1/28/2010, the sampling event day. Mostly clear and sunny during the sampling event.

Sampling Personnel

- o Barry Cotter and Kehinde Adeshile

Description of Catchment

Pavement Type

- o Impervious surface in good condition and frontage of properties slope towards the roadway; asphalt resurfaced on 03/24/2002

Typical Geometry and R/W Section

- o Average cross slope: 3.0%, Average longitudinal slope: 0.5%

Run-on Conditions

- o Run-offs from roadway and properties' frontage flow to the edge of roadway into drainage system

Drainage Appurtenances in the Catchment Area

- o Catch-basins and reinforced concrete pipes

Significant Features that may affect PM, N and P loadings

- o Leaf litter, grass clippings, trash, and sediment

Predominant Source

- o Neither is predominant

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o JHNSTON 3000, approximately 3 years

Dimensions of Area Cleaned

- o 12,443.10 curb feet (one-way) X 4.71 ft = 58,607.0 sq ft

Previous Cleaning Activity

- o Sweeping is normally done approximately every 6 to 8 weeks

Traffic Estimate (ADT)

Count Station 7328: (2008 Duval County Local Traffic Counts): 6,844

Count Station 7176: (2008 Duval County Local Traffic Counts): 12,752

Count Station 7327: (2008 Duval County Local Traffic Counts): 15,266

Approx. Weight of Recovered Sample

- o Approximately 700 lbs.

Description of Sample and COC

- o Grab sample; moist particulate matter
- o COC provided on 01.29.2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - JACKSONVILLE (JAX - SS - H - OUT - 1)

Sample ID

- o JAX – SS – H – OUT – 1

Jurisdiction

- o City of Jacksonville

Land Use Zoning

- o Highway

Location

- o 3400 Saint Augustine Rd/Phillips Hwy.
Neighborhood: San Marco

Co-ordinates

- o 30° 17' 28.106" N 81° 38' 38.844" W

Date and Time (with Previous Dry Hours)

- o 12/09/2009 10:58 am
- o Less than 0.01 inch of rain (trace of rain) on 12/08/09, the day before the sampling event; 1.38 inches of rain on (12/09/09), the sampling event day. Partly cloudy and no rain during sampling event.

Sampling Personnel

- o Barry Cotter and Kehinde Adeshile

Description of Catchment

Pavement Type

- o Asphalt pavement roadway with curbs and gutters; concrete side-walks on both sides of the roadway. Few dense tree canopies and grassy areas are adjacent to the side-walks.

Typical Geometry and R/W Section

- o Average cross slope: 3.0%, Average longitudinal slope: 0.5%

Run-on Conditions

- o Run-offs from roadway and properties' frontage flow to the edge of roadway into drainage system

Drainage Appurtenances in the Catchment Area

- o Catch-basins, reinforced concrete pipes, and ponds

Significant Features that may affect PM, N and P loadings

- o Leaf litter, grass clippings, trash, and sediment

Predominant Source

- o Leaf litter, grass clippings, trash, and sediment

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o JHNSTON 3000, approximately 3 years

Dimensions of Area Cleaned

- o 325.2 curb feet (one-way) X 4.71 feet = 1531.69 sq ft

Previous Cleaning Activity

- o Sweeping is normally done approximately every 6 to 8 weeks

Traffic Estimate (ADT)

- o 8,644

Approx. Weight of Recovered Sample

- o Approximately less than 30 lbs.

Description of Sample and COC

- o Grab sample; moist particulate matter
- o COC provided on 12.09.09



ADT : average daily traffic
COC : chain of custody
H : highway land use
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - JACKSONVILLE (JAX - SS - H - OUT - 2)

Sample ID

- o JAX – SS – H – OUT – 2

Jurisdiction

- o City of Jacksonville

Land Use Zoning

- o Highway

Location

- o 3673 Park Street/Dancy Street.
Riverside Neighborhood

Co-ordinates

- o 30° 18' 0.010" N 81° 42' 39.523" W

Date and Time (with Previous Dry Hours)

- o 12/09/2009 11:59 am
- o Less than 0.01 inch of rain (trace of rain) on 12/08/09, the day before the sampling event; 1.38 inches of rain on (12/09/09), the sampling event day. Partly cloudy and no rain during sampling event.

Sampling Personnel

- o Barry Cotter and Kehinde Adeshile

Description of Catchment

Pavement Type

- o Asphalt pavement roadway with curbs and gutters; concrete side-walks on both sides of the roadway. Few dense tree canopies and grassy areas are adjacent to the side-walks.

Typical Geometry and R/W Section

- o Average cross slope: 3.0%, Average longitudinal slope: 0.5%

Run-on Conditions

- o Run-offs from roadway and properties' frontage flow to the edge of roadway into drainage system

Drainage Appurtenances in the Catchment Area

- o Catch-basins and reinforced concrete pipes,

Significant Features that may affect PM, N and P loadings

- o Leaf litter, grass clippings, trash, and sediment

Predominant Source

- o Leaf litter, grass clippings, trash, and sediment

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o JHNSTON 3000, approximately 3 years

Dimensions of Area Cleaned

- o 644.62 curb feet (one-way) X 4.71 ft = 3036.16 sq ft

Previous Cleaning Activity

- o Sweeping is normally done approximately every 6 to 8 weeks

Traffic Estimate (ADT)

- o 13,822

Approx. Weight of Recovered Sample

- o Approximately less than 30 lbs.

Description of Sample and COC

- o Grab sample; moist particulate matter
- o COC provided on 12/09/09



ADT : average daily traffic
COC : chain of custody
H : highway land use
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - JACKSONVILLE (JAX - SS - H - OUT - 3)

Sample ID

- o JAX – SS – H – OUT – 3

Jurisdiction

- o City of Jacksonville

Land Use Zoning

- o Highway

Location

- o 6217 Merrill Road/Red Oak Dr.
Arlington Neighborhood

Co-ordinates

- o 30° 21' 6.658" N 81° 35' 35.426" W

Date and Time (with Previous Dry Hours)

- o 01/28/2010 11:50 am
- o Approximately 0.94 inch of rain on 1/25/2010; and no rain on 1/28/2010, during the sampling event day.

Sampling Personnel

- o Barry Cotter and Kehinde Adeshile

Description of Catchment

Pavement Type

- o Asphalt pavement roadway with curbs and gutters; concrete side-walks on both sides of the roadway. Few dense tree canopies and grassy areas are adjacent to the side-walks.

Typical Geometry and R/W Section

- o Average cross slope: 3.0%, Average longitudinal slope: 0.5%

Run-on Conditions

- o Run-offs from roadway and properties' frontage flow to the edge of roadway into drainage system

Drainage Appurtenances in the Catchment Area

- o Catch-basins, reinforced concrete pipes, and ponds

Significant Features that may affect PM, N and P loadings

- o Leaf litter, grass clippings, trash, and sediment

Predominant Source

- o Leaf litter, grass clippings, trash, and sediment

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Stewart Amos Sweeper Co. International, CF 600, VT275, S4; manufactured in 2009

Dimensions of Area Cleaned

- o 18913.50 ft X 12 ft = 226,962 sq ft

Previous Cleaning Activity

- o Sweeping is normally done approximately every 6 to 8 weeks

Traffic Estimate (ADT)

- o 25,430

Approx. Weight of Recovered Sample

- o Approximately 700 lbs

Description of Sample and COC

- o Grab sample; moist particulate matter
- o COC provided on 01/28/10



ADT : average daily traffic
COC : chain of custody
H : highway land use
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - JACKSONVILLE (JAX - SS - R - OUT - 1)

Sample ID

- o JAX – SS – R – OUT – 1

Jurisdiction

- o City of Jacksonville

Land Use Zoning

- o Residential

Location

- o 2344 Laurel Road/Maple Road
Neighborhood: San Marco

Co-ordinates

- o 30° 18' 0.710" N 81° 39' 5.471" W

Date and Time (with Previous Dry Hours)

- o 12/09/2009 10:58 am
- o Less than 0.01 inch of rain (trace of rain) on 12/08/09, the day before the sampling event; 1.38 inches of rain on (12/09/09), the sampling event day. Partly cloudy and no rain during sampling event.

Sampling Personnel

- o Barry Cotter and Kehinde Adeshile

Description of Catchment

Pavement Type

- o Asphalt pavement roadway with curbs and gutters. Many dense tree canopies; no concrete side-walks on both sides of the roadway and very expansive grassy areas are adjacent to both sides of the roadway (conduit for fertilizer runoff)

Typical Geometry and R/W Section

- o Average cross slope: 3.0%, Average longitudinal slope: 0.5%

Run-on Conditions

- o Run-offs from roadway and properties' frontage flow to the edge of roadway into drainage system

Drainage Appurtenances in the Catchment Area

- o Catch-basins and reinforced concrete pipes

Significant Features that may affect PM, N and P loadings

- o Leaf litter, grass clippings, trash, and sediment

Predominant Source

- o Leaf litter, grass clippings, trash, and sediment

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o JHNSTON 3000, approximately 3 years

Dimensions of Area Cleaned

- o 941.78 curb feet (one-way) X 4.71 ft = 4,435.78 sq ft

Previous Cleaning Activity

- o Sweeping is normally done approximately every 6 to 8 weeks

Traffic Estimate (ADT)

- o 600

Approx. Weight of Recovered Sample

- o 200 lbs

Description of Sample and COC

- o Grab sample; moist particulate matter
- o COC provided on 12.09.09



ADT : average daily traffic
COC : chain of custody
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping

FIELD INFORMATION - JACKSONVILLE (JAX - SS - R - OUT - 2)

Sample ID

- o JAX – SS – R – OUT – 2

Jurisdiction

- o City of Jacksonville

Land Use Zoning

- o Residential

Location

- o 1100 Stockton Street/Forbes Street
Neighborhood: Riverside

Co-ordinates

- o 30° 18' 47.211" N 81° 41' 19.643" W

Date and Time (with Previous Dry Hours)

- o 12/09/2009 11:30 am
- o Less than 0.01 inch of rain (trace of rain) on 12/08/09, the day before the sampling event; 1.38 inches of rain on (12/09/09), the sampling event day. Partly cloudy and no rain during sampling event.

Sampling Personnel

- o Barry Cotter and Kehinde Adeshile

Description of Catchment

Pavement Type

- o Asphalt pavement roadway with curbs and gutters. Many dense tree canopies; no concrete side-walks on both sides of the roadway and very expansive grassy areas are adjacent to both sides of the roadway (conduit for fertilizer runoff)

Typical Geometry and R/W Section

- o Average cross slope: 3.0%, Average longitudinal slope: 0.5%

Run-on Conditions

- o Run-offs from roadway and properties' frontage flow to the edge of roadway into drainage system

Drainage Appurtenances in the Catchment Area

- o Catch-basins and reinforced concrete pipes

Significant Features that may affect PM, N and P loadings

- o Leaf litter, grass clippings, trash, and sediment

Predominant Source

- o Leaf litter, grass clippings, trash, and sediment

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o JHNSTON 3000, approximately 3 years

Dimensions of Area Cleaned

- o 653.24 curb feet (one-way) X 4.71 ft = 3,076.76 sq ft

Previous Cleaning Activity

- o Sweeping is normally done approximately every 6 to 8 weeks

Traffic Estimate (ADT)

- o 11,542

Approx. Weight of Recovered Sample

- o Approximately less than 50 lbs

Description of Sample and COC

- o Grab sample; moist particulate matter
- o COC provided on 12.09.09



ADT : average daily traffic
COC : chain of custody
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping

FIELD INFORMATION - JACKSONVILLE (JAX - SS - R - OUT - 3)

Sample ID

- o JAX – SS – R – OUT – 3

Jurisdiction

- o City of Jacksonville

Land Use Zoning

- o Residential

Location

- o 4357 Charter Blvd./University
Boulevard Neighborhood: Arlington

Co-ordinates

- o 30° 22' 58.689" N 81° 36' 38.027" W

Date and Time (with Previous Dry Hours)

- o 01/28/2010 10:21 am
- o Approximately 0.94 inch of rain on 1/25/2010, the last rainy day before the sampling event. Mostly clear, sunny, and no rain during the sampling event on 1/28/2010

Sampling Personnel

- o Barry Cotter and Kehinde Adeshile

Description of Catchment

Pavement Type

- o Asphalt pavement roadway with curbs and gutters. Many dense tree canopies; concrete side-walks on both sides of the roadway and very expansive grassy areas are adjacent to both sides of the roadway (conduit for fertilizer runoff)

Typical Geometry and R/W Section

- o Average cross slope: 3.0%, Average longitudinal slope: 0.5%

Run-on Conditions

- o Run-offs from roadway and properties' frontage flow to the edge of roadway into drainage system

Drainage Appurtenances in the Catchment Area

- o Catch-basins and reinforced concrete pipes

Significant Features that may affect PM, N and P loadings

- o Leaf litter, grass clippings, trash, and sediment

Predominant Source

- o Leaf litter, grass clippings, trash, and sediment

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o JHNSTON 3000, approximately 3 years

Dimensions of Area Cleaned

- o 2,156 curb feet (one-way) X 4.71 ft = 10,154.76 sq ft

Previous Cleaning Activity

- o Sweeping is normally done approximately every 6 to 8 weeks

Traffic Estimate (ADT)

- o 11,542

Approx. Weight of Recovered Sample

- o Approximately 600 lbs

Description of Sample and COC

- o Grab sample; moist particulate matter
- o COC provided on 1/28/2010



ADT : average daily traffic
COC : chain of custody
JAX : Jacksonville
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping

LEE COUNTY (LC)

FIELD INFORMATION - LEE COUNTY (LC - BMP - C - OUT -1)

Sample identification

- o LC - BMP - C - OUT -1

Jurisdiction

- o Lee County

Land use zoning

- o Commercial

Location

- o Storm Ceptor Winkler Ave and Broadway

Co-ordinates

- o 26°36'16.02", 81°52'05.54"

Date and time (with previous dry hours)

- o 07/15/2010 08:35 AM
- o pdh ~ 72

Sampling personnel

- o Nina Infantado, Sue Fite, and John Reekie

Description of catchment

Cover information

- o 50% asphalt, 50% concrete

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Flat and R/W: East-bound Right-hand lane.

Run-on conditions

- o Outfalls into Winkler Canal on west-side of US-41 to Caloosahatchee River

Reclaimed water application

- o No

Basic description of soil type

- o Sandy

Drainage appurtenances in the area

- o Curb/gutter

Significant features influencing PM, N, P load

- o Stormwater runoff from adjacent roadways, commercial and residential areas

Predominant PM, N, and P sources

- o 95% biogenic, 5% anthropogenic

Description of BMP

Type

- o Storm Ceptor

Approximate age

- o ~10 years

Previous cleaning activity

- o 01/16/2010

Condition

- o Clean

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 12 x 6 (900 gallons)

Description of flow to BMP

- o Direct runoff to Box Culvert system

Description of sampling method

- o Ponar grab and telescopic water sampler

Traffic estimate (ADT)

- o 53,200

Approx. weight of recovered sample

- o 2.7 kg.

Description of sample and COC

- o Moist particulate matter
- o COC provided on 07.15.2010



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - LEE COUNTY (LC - BMP - C - OUT -2)

Sample identification

- o LC - BMP - C - OUT -2

Jurisdiction

- o Lee County

Land use zoning

- o Commercial

Location

- o 1000 5th St./Estero Blvd

Co-ordinates

- o 26.45352 , -81.95601

Date and time (with previous dry hours)

- o 09/16/2009 10:20 AM
- o pdh ~ 15

Sampling personnel

- o Eric Lindner

Description of catchment

Cover information

- o 100% concrete pavement

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Flat

Run-on conditions

- o Restaurant, retail stores

Reclaimed water application

- o No

Basic description of soil type

- o Sandy

Drainage appurtenances in the area

- o Curb & gutter inlets

Significant features influencing PM, N, P load

- o Filter box screened inlets

Predominant PM, N, and P sources

- o 30/70 Mix

Description of BMP

Type

- o Filter Box

Approximate age

- o ~2 years

Previous cleaning activity

- o Unknown

Condition

- o Good

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 2' x 2' x 2'

Description of flow to BMP

- o Direct runoff

Description of sampling method

- o Plastic scoop, sieve, telescopic water sampler

Traffic estimate (ADT)

- o 14,000

Approx. weight of recovered sample

- o 3 lbs

Description of sample and COC

- o Moist particulate matter
- o COC provided on 09.16.09



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - LEE COUNTY (LC - BMP - C - OUT -3)

Sample identification

- o LC - BMP - C - OUT -3

Jurisdiction

- o City of Bonita Springs

Land use zoning

- o Commercial

Location

- o Tennessee Rd and Old 41 (Business 41)

Co-ordinates

- o 26.40448, -81.88275

Date and time (with previous dry hours)

- o 04/24/2009 10:15 AM
- o pdh ~ 168

Sampling personnel

- o Eric Lindner/Nina Infantado

Description of catchment

Cover information

- o Canopy Oaks/asphalt parking lot: 40% tree cover, 60% asphalt

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Flat with 5% slope

Run-on conditions

- o Small businesses, grass clippings, leaf litters, highway run-off

Reclaimed water application

- o No

Basic description of soil type

- o Sand

Drainage appurtenances in the area

- o Curb & gutter to Curb inlets

Significant features influencing PM, N, P load

- o Filter box inlets

Predominant PM, N, and P sources

- o 60/40 Mix

Description of BMP

Type

- o Filter Box

Approximate age

- o ~3 years

Previous cleaning activity

- o Unknown

Condition

- o Clean, leaf litter mostly caught on filter springs

Condition of PM residuals

- o Moist

Dimensions and volume

- o 3' deep x 4' wide

Description of flow to BMP

- o Direct runoff

Description of sampling method

- o Plastic scoop, sieve, telescopic water sampler

Traffic estimate (ADT)

- o 13,200

Approx. weight of recovered sample

- o 3 lbs

Description of sample and COC

- o Moist particulate matter
- o COC provided on site



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - LEE COUNTY (LC - BMP - H - OUT -1)

Sample identification

- o LC - BMP - H - OUT -1

Jurisdiction

- o Lee County

Land use zoning

- o Highway

Location

- o Winkler Avenue Ext. Curb side runoff (Between Fowler and Evans) Storm Ceptor

Co-ordinates

- o 26.60432, -81.86043

Date and time (with previous dry hours)

- o 07/15/2010 08:05 AM
- o pdh ~ 72

Sampling personnel

- o Nina Infantado, Sue Fite, and John Reekie

Description of catchment

Cover information

- o 100% asphalt

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Flat and R/W: East-bound Right-hand lane

Run-on conditions

- o Outfalls into Winkler Canal on west-side of US-41 to Caloosahatchee River

Reclaimed water application

- o No

Basic description of soil type

- o Sandy

Drainage appurtenances in the area

- o Curb & gutter

Significant features influencing PM, N, P load

- o Regular grass clippings

Predominant PM, N, and P sources

- o 95% biogenic, 5% anthropogenic

Description of BMP

Type

- o Storm Ceptor

Approximate age

- o ~10 years

Previous cleaning activity

- o 01/16/2010

Condition

- o Clean

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 12' x 6' (900 gallons)

Description of flow to BMP

- o Direct runoff to Box Culvert system

Description of sampling method

- o Ponar grab and Telescopic Water Sampler

Traffic estimate (ADT)

- o 19,500

Approx. weight of recovered sample

- o 2.3 kg

Description of sample and COC

- o Moist particulate matter
- o COC provided on 07.15.2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - LEE COUNTY (LC - BMP - H - OUT -2)

Sample identification

- o LC - BMP - H - OUT -2

Jurisdiction

- o Lee County

Land use zoning

- o Highway

Location

- o Estero Blvd in front of The Winds

Co-ordinates

- o 26.45366 , -81.95592

Date and time (with previous dry hours)

- o 09/16/2009 09:45 AM
- o pdh ~ 15

Sampling personnel

- o Eric Lindner

Description of catchment

Cover information

- o 100% asphalt

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Flat

Run-on conditions

- o Restaurants, beach shops

Reclaimed water application

- o No

Basic description of soil type

- o Sand

Drainage appurtenances in the area

- o Curb & gutter to curb inlets

Significant features influencing PM, N, P load

- o Filter box inlet

Predominant PM, N, and P sources

- o 50/50 mix

Description of BMP

Type

- o Catch basins

Approximate age

- o ~2 years

Previous cleaning activity

- o Unknown

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o 2' x 2' x 2'

Description of flow to BMP

- o Direct runoff

Description of sampling method

- o Plastic scoop, stainless steel scoop, Telescopic water sampler

Traffic estimate (ADT)

- o 16,600

Approx. weight of recovered sample

- o 4 lbs

Description of sample and COC

- o Moist particulate matter
- o COC provided on 09.16.09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - LEE COUNTY (LC - BMP - H - OUT -3)

Sample identification

- o LC - BMP - H - OUT -3

Jurisdiction

- o City of Bonita Springs

Land use zoning

- o Highway

Location

- o Old 41 and Goodwin St South of W Terry

Co-ordinates

- o 26.34427, -81.77926

Date and time (with previous dry hours)

- o 04/24/2009 10:35 AM
- o pdh ~ 168

Sampling personnel

- o Eric Lindner/Nina Infantdo

Description of catchment

Cover information

- o 100% asphalt

Potential constraints to property access

- o None

Typical geometry and R/W section

- o 2.5% slope road

Run-on conditions

- o Run-off from highway, restaurant, small businesses, road litter, a small zoo

Reclaimed water application

- o No

Basic description of soil type

- o Sand/silt

Drainage appurtenances in the area

- o Gutter

Significant features influencing PM, N, P load

- o Filter box inlet

Predominant PM, N, and P sources

- o 70/30 mix

Description of BMP

Type

- o Filter box

Approximate age

- o ~3 years

Previous cleaning activity

- o Unknown

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o 3' deep x 3' wide

Description of flow to BMP

- o Direct runoff

Description of sampling method

- o Plastic scoop, sieve, telescopic water sampler

Traffic estimate (ADT)

- o 21,300

Approx. weight of recovered sample

- o 4 lbs

Description of sample and COC

- o Moist particulate matter
- o COC provided on site



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - LEE COUNTY (LC - BMP - R - OUT -1)

Sample identification

- o LC - BMP - R - OUT -1

Jurisdiction

- o Lee County

Land use zoning

- o Residential

Location

- o 243 Primo Dr Estero Islands

Co-ordinates

- o 26.45513 ,-81.95275

Date and time (with previous dry hours)

- o 09/16/2009 11:10 AM
- o pdh ~ 15

Sampling personnel

- o Eric Lindner

Description of catchment

Cover information

- o 75% concrete, 15% trees, 10% grass

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Flat

Run-on conditions

- o Used residential homes

Reclaimed water application

- o No

Basic description of soil type

- o Sand/pebbles

Drainage appurtenances in the area

- o Direct

Significant features influencing PM, N, P load

- o Filter box inlet

Predominant PM, N, and P sources

- o 80/20 mix

Description of BMP

Type

- o Filter box inlet

Approximate age

- o ~2 years

Previous cleaning activity

- o Unknown

Condition

- o Good

Condition of PM residuals

- o Mosit

Dimensions and volume

- o 2' x 2' x 3'

Description of flow to BMP

- o Direct runoff

Description of sampling method

- o Plastic scoop, telescopic water sampler, sieve

Traffic estimate (ADT)

- o 6,500

Approx. weight of recovered sample

- o 2 lbs

Description of sample and COC

- o Moist particulate matter
- o COC provided on 09.16.09



ADT : average daily traffic

BMP : best management practice

COC : chain of custody

LC : Lee County

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

FIELD INFORMATION - LEE COUNTY (LC - BMP - R - OUT -2)

Sample identification

- o LC - BMP - R - OUT -2

Jurisdiction

- o Lee County

Land use zoning

- o Highway

Location

- o 7877 Buccaneer Rd

Co-ordinates

- o 26.40608 , 81.89315

Date and time (with previous dry hours)

- o 09/16/2009 12:05 PM
- o pdh ~ 15

Sampling personnel

- o Eric Lindner

Description of catchment

Cover information

- o 40% grass, 10% trees, 50% asphalt

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Flat

Run-on conditions

- o Residential homes

Reclaimed water application

- o No

Basic description of soil type

- o Sand/pebbles

Drainage appurtenances in the area

- o Gutter

Significant features influencing PM, N, P load

- o Filter box inlet

Predominant PM, N, and P sources

- o 95/5 mix

Description of BMP

Type

- o Filter box inlet

Approximate age

- o ~2 years

Previous cleaning activity

- o Unknown

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o 2' x 2' x 3'

Description of flow to BMP

- o Direct runoff

Description of sampling method

- o Plastic scoop, telescopic water sampler, sieve

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o 2 lbs

Description of sample and COC

- o Moist particulate matter
- o COC provided on 09.16.09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - LEE COUNTY (LC - BMP - R - OUT -3)

Sample identification

- o LC - BMP - R - OUT -3

Jurisdiction

- o Lee County

Land use zoning

- o Residential

Location

- o Redfish Rd/Buccaneer Dr

Co-ordinates

- o 26.40599 , -81.89039

Date and time (with previous dry hours)

- o 09/16/2009 12:40 PM
- o pdh ~ 15

Sampling personnel

- o Eric Lindner

Description of catchment

Cover information

- o 50% grass, 50% asphalt

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Flat

Run-on conditions

- o Residential homes, grass clippings, fertilizers

Reclaimed water application

- o No

Basic description of soil type

- o Sand/pebbles

Drainage appurtenances in the area

- o Swa;e

Significant features influencing PM, N, P load

- o Filter box inlet

Predominant PM, N, and P sources

- o 95/5 mix

Description of BMP

Type

- o Filter box inlet

Approximate age

- o ~2 years

Previous cleaning activity

- o Unknown

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o 2' x 4' x 3'

Description of flow to BMP

- o Direct runoff

Description of sampling method

- o Plastic scoop, telescopic water sampler, sieve

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o 2 lbs

Description of sample and COC

- o Moist particulate matter
- o COC provided on 09/16/09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - LEE COUNTY (LC - CB - C - OUT - 1)

Sample identification

- o LC – CB – C – OUT – 1

Jurisdiction

- o Lee County

Land use zoning

- o Commercial

Location

- o Hancock Bridge Pkwy and Beau Dr.

Co-ordinates

- o 26.39.45.30 N and 81.53.17.53 W

Date and time (with previous dry hours)

- o 7/27/2010 9:35 AM

- o pdh ~ 72

Sampling personnel

- o Nina Infantado and Sue Fite

Description of catchment

Cover information

- o No tree coverage, 50:50 sandy soil:grass shoulder

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Flat, R/W: right-hand land of highway

Run-on conditions

- o Highway run-off, parking lots, commercial buildings, and road litter

Reclaimed water application

- o No

Basic description of soil type

- o Sand and shell

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o CB in highway

Predominant PM, N, and P sources

- o 5% Biogenic and 95% Anthropogenic

Description of catch basin

Type

- o Curb inlet type 5

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o Old and dirty

Condition of PM residuals

- o Moist

Dimensions and volume

- o 42" x 41" x 29"

Description of flow to catch basin

- o Direct run-off

Description of sampling method

- o Ponar grab, telescopic water sampler, plastic spoon, sieve, and pan. Each rinsed before and after each site with DI water

Traffic estimate (ADT)

- o 21200

Approx. weight of recovered sample

- o PM: ~3.7Kg and Aqueous: ~1.0Kg

Description of sample and COC

- o Moist PM
- o COC provided on 07.27.2010



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - LEE COUNTY (LC - CB - C - OUT - 2)

Sample identification

- o LC – CB – C – OUT – 2

Jurisdiction

- o Lee County

Land use zoning

- o Commercial

Location

- o Billy Creek Commerce and Zip Dr.

Co-ordinates

- o 26.39.33.52 N and 81.48.24.96 W

Date and time (with previous dry hours)

- o 7/27/2010 10:10 AM

- o pdh ~ 72

Sampling personnel

- o Nina Infantado and Sue Fite

Description of catchment

Cover information

- o No tree coverage, 70% road/gutter and 30% grass swale

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o On grass, flat

Run-on conditions

- o Industrial runoff to road ROW

Reclaimed water application

- o No

Basic description of soil type

- o Sandy soil

Drainage appurtenances in the area

- o Inlet - elliptical

Significant features influencing PM, N, P load

- o Grass clippings, fertilizers

Predominant PM, N, and P sources

- o 5% Biogenic and 95% Anthropogenic

Description of catch basin

Type

- o Type S gutter inlet

Approximate age

- o 11 years

Previous cleaning activity

- o Cleaned November, 2007

Condition

- o Fair structure is fine, some debris and signs of algal growth in CB

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 12" x 18" ellipse; 12' LF

Description of flow to catch basin

- o Direct road/grass shoulder runoff

Description of sampling method

- o Ponar grab, telescopic water sampler, plastic spoon, sieve, and pan. Each rinsed before and after each site with DI water

Traffic estimate (ADT)

- o 8800

Approx. weight of recovered sample

- o PM: ~4.3Kg and Aqueous: ~2.3Kg

Description of sample and COC

- o Wet PM
- o COC provided on 07.27.2010



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - LEE COUNTY (LC - CB - C - OUT - 3)

Sample identification

- o LC – CB – C – OUT – 3

Jurisdiction

- o City of Bonita Springs

Land use zoning

- o Commercial

Location

- o Imperial Pkwy North of Bonita Beach Road

Co-ordinates

- o 26.19.58.77 N and 81.45.44.83 W

Date and time (with previous dry hours)

- o 7/29/2010 10:15 AM
- o pdh ~ 24

Sampling personnel

- o Nina Infantado and Sue Fite

Description of catchment

Cover information

- o 80% pavement and 20% grass shoulder

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Flat on sidewalk next to right hand side of highway

Run-on conditions

- o Primarily receives runoff from roadway, grass clippings, litter, sediments, and residuals from Pkwy

Reclaimed water application

- o No

Basic description of soil type

- o Sandy

Drainage appurtenances in the area

- o Type P-4 curb inlet

Significant features influencing PM, N, P load

- o Detention pond

Predominant PM, N, and P sources

- o 5% Biogenic and 95% Anthropogenic

Description of catch basin

Type

- o P-4 Curb Inlet

Approximate age

- o 2 years

Previous cleaning activity

- o Cleaned January, 2009

Condition

- o Good

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 3.5' x 3.5' x 4.3', Volume: 52.6ft³

Description of flow to catch basin

- o Direct runoff

Description of sampling method

- o Ponar grab, telescopic water sampler, plastic spoon, sieve, and pan. Each rinsed before and after each site with DI water

Traffic estimate (ADT)

- o 14300

Approx. weight of recovered sample

- o PM: ~2.2Kg and Aqueous: ~2.0Kg

Description of sample and COC

- o Wet PM
- o COC provided on 07.29.2010



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - LEE COUNTY (LC - CB - H - OUT - 1)

Sample identification

- o LC – CB – H – OUT – 1

Jurisdiction

- o City of Cape Coral

Land use zoning

- o Highway

Location

- o Del Prado Blvd. and West of Tamiami Trail (US-41)

Co-ordinates

- o 26.43.25.68 N and 81.54.41.87 W

Date and time (with previous dry hours)

- o 7/28/2010 10:37 AM
- o pdh ~ 17

Sampling personnel

- o Nina Infantado and Sue Fite

Description of catchment

Cover information

- o 50% Oak tree cover

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Flat on sidewalk next to right hand side of highway

Run-on conditions

- o Vacant lots/residential to road ROW

Reclaimed water application

- o No

Basic description of soil type

- o Sandy soil

Drainage appurtenances in the area

- o Curb inlet

Significant features influencing PM, N, P load

- o Commercial common area with fertilizer/landscape runoff

Predominant PM, N, and P sources

- o 5% Biogenic and 95% Anthropogenic

Description of catch basin

Type

- o Type 2 or 4 Curb Inlet

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o Good, little debris, no damage

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 34" x 53" RCP, 12' LF

Description of flow to catch basin

- o Direct runoff

Description of sampling method

- o Ponar grab, telescopic water sampler, plastic spoon, sieve, and pan. Each rinsed before and after each site with DI water

Traffic estimate (ADT)

- o 4900

Approx. weight of recovered sample

- o PM: ~2.2Kg and Aqueous: ~2.0Kg

Description of sample and COC

- o Wet PM
- o COC provided on 07.28.2010



ADT : average daily traffic

H : highway land use

CB : catch basin

COC : chain of custody

LC : Lee County

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

FIELD INFORMATION - LEE COUNTY (LC - CB - H - OUT - 2)

Sample identification

- o LC – CB – H – OUT – 2

Jurisdiction

- o Lee County

Land use zoning

- o Highway

Location

- o Sunshine Blvd. and Lee Blvd.

Co-ordinates

- o 26.37.1.22 N and 81.40.52.48 W

Date and time (with previous dry hours)

- o 7/27/2010 10:40 AM
- o pdh ~ 17

Sampling personnel

- o Nina Infantado and Sue Fite

Description of catchment

Cover information

- o 50% Oak tree cover and 50% pavement

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Flat on sidewalk next to highway

Run-on conditions

- o Gas station, highway run-off, sidewalk and road litter

Reclaimed water application

- o No

Basic description of soil type

- o Sand/slit

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o Gas station next to CB

Predominant PM, N, and P sources

- o 5% Biogenic and 95% Anthropogenic

Description of catch basin

Type

- o Type 2 or 4 Curb Inlet

Approximate age

- o N/A

Previous cleaning activity

- o Cleaned March, 2008

Condition

- o Rusty and dirty

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 24" (dia) x 48" (d)

Description of flow to catch basin

- o Direct runoff from gutters

Description of sampling method

- o Ponar grab, telescopic water sampler, plastic spoon, sieve, and pan. Each rinsed before and after each site with DI water

Traffic estimate (ADT)

- o 36400

Approx. weight of recovered sample

- o PM: ~2.4Kg and Aqueous: ~1.6Kg

Description of sample and COC

- o Wet PM
- o COC provided on 07.27.2010



ADT : average daily traffic

CB : catch basin

COC : chain of custody

H : highway land use

LC : Lee County

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

FIELD INFORMATION - LEE COUNTY (LC - CB - H - OUT - 3)

Sample identification

- o LC – CB – H – OUT – 3

Jurisdiction

- o City of Bonita Springs

Land use zoning

- o Highway

Location

- o Old 41 and North of Bonita Beach Rd.

Co-ordinates

- o 26.19.57.11 N and 81.46.43.28 W

Date and time (with previous dry hours)

- o 7/29/2010 9:35 AM

- o pdh N/A

Sampling personnel

- o Nina Infantado and Sue Fite

Description of catchment

Cover information

- o 50% tree cover and 50% grass

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Flat on sidewalk next to right-hand side of the highway

Run-on conditions

- o Type C ditch bottom receives runoff from an adjacent parking area and sidewalk. The inlet has a bag inserted to catch debirs.

Reclaimed water application

- o No

Basic description of soil type

- o Sandy soils

Drainage appurtenances in the area

- o Type C ditch bottom inlet

Significant features influencing PM, N, P load

- o Inlet filter bag, woven geo-textile for collection of sediments, and sorbent socks for absorption of oils

Predominant PM, N, and P sources

- o 5% Biogenic and 95% Anthropogenic

Description of catch basin

Type

- o Type C ditch bottom inlet

Approximate age

- o 6 years

Previous cleaning activity

- o Cleaned May, 2010

Condition

- o Good

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 2' x 2' x 3', Volume: 18ft³

Description of flow to catch basin

- o Connected to stormwater swale

Description of sampling method

- o Ponar grab, telescopic water sampler, plastic spoon, sieve, and pan. Each rinsed before and after each site with DI water

Traffic estimate (ADT)

- o 43100

Approx. weight of recovered sample

- o PM: ~2.2Kg and Aqueous: ~2.0Kg

Description of sample and COC

- o Wet PM
- o COC provided on 07.29.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - LEE COUNTY (LC - CB - R - OUT - 1)

Sample identification

- o LC – CB – R – OUT – 1

Jurisdiction

- o Lee County

Land use zoning

- o Residential

Location

- o Orange Grove Blvd. and Birkdale Ave.

Co-ordinates

- o 26.38.15.24 N and 81.54.59.89 W

Date and time (with previous dry hours)

- o 7/27/2010 9:15 AM
- o pdh ~ 48

Sampling personnel

- o Nina Infantado and Sue Fite

Description of catchment

Cover information

- o 40% pavement and 60% grass

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Flat on grass next to sidewalk

Run-on conditions

- o Grass clippings, fertilizers, sidewalk litter, and pond

Reclaimed water application

- o No

Basic description of soil type

- o Sand/shell

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o Grass clippings and fertilizers

Predominant PM, N, and P sources

- o 5% Biogenic and 95% Anthropogenic

Description of catch basin

Type

- o Drop Inlet Type-D

Approximate age

- o N/A

Previous cleaning activity

- o Cleaned July, 2010

Condition

- o Old, clean

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 50" x 65" x 39"

Description of flow to catch basin

- o Direct run-off

Description of sampling method

- o Ponar grab, telescopic water sampler, plastic spoon, sieve, and pan. Each rinsed before and after each site with DI water

Traffic estimate (ADT)

- o 7600

Approx. weight of recovered sample

- o PM: ~0.3Kg and Aqueous: ~2.0Kg

Description of sample and COC

- o Wet PM
- o COC provided on 07.27.2010



ADT : average daily traffic

CB : catch basin

COC : chain of custody

LC : Lee County

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

FIELD INFORMATION - LEE COUNTY (LC - CB - R - OUT - 2)

Sample identification

- o LC – CB – R – OUT – 2

Jurisdiction

- o Lee County

Land use zoning

- o Residential

Location

- o Harlem Heights at Robinson St. and Concourse Dr.

Co-ordinates

- o 26.31.2.73 N and 81.55.46.65 W

Date and time (with previous dry hours)

- o 7/25/2010 11:30 AM
- o pdh ~ 48

Sampling personnel

- o Nina Infantado and Sue Fite

Description of catchment

Cover information

- o 80% pavement, 10% grass/sand, and 10% trees

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Flat on bike path

Run-on conditions

- o Direct run-off, litter, tree root growth inside CB

Reclaimed water application

- o No

Basic description of soil type

- o Sand, rocks, and silt

Drainage appurtenances in the area

- o Box inlet

Significant features influencing PM, N, P load

- o Root growth inside the CB

Predominant PM, N, and P sources

- o 5% Biogenic and 95% Anthropogenic

Description of catch basin

Type

- o Circular Top Drop Inlet, Type X Non-standard

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o Dirty with tree roots growing inside CB

Condition of PM residuals

- o Moist

Dimensions and volume

- o 41" x 41" x 36"

Description of flow to catch basin

- o Direct run-off

Description of sampling method

- o Ponar grab, telescopic water sampler, plastic spoon, sieve, and pan. Each rinsed before and after each site with DI water

Traffic estimate (ADT)

- o 7300

Approx. weight of recovered sample

- o PM: ~1.9Kg and no Aqueous

Description of sample and COC

- o Moist PM
- o COC provided on 07.27.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - LEE COUNTY (LC - CB - R - OUT - 3)

Sample identification

- o LC – CB – R – OUT – 3

Jurisdiction

- o Lee County

Land use zoning

- o Residential

Location

- o Sanibel Blvd. and Marco Blvd.

Co-ordinates

- o 26.27.51.08 N and 81.49.44.05 W

Date and time (with previous dry hours)

- o 7/27/2010 12:05 PM

- o pdh ~ 72

Sampling personnel

- o Nina Infantado and Sue Fite

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Flat on grass

Run-on conditions

- o Residential runoff to road ROW

Reclaimed water application

- o No

Basic description of soil type

- o Sandy soils

Drainage appurtenances in the area

- o Inlet

Significant features influencing PM, N, P load

- o Landscaped residential common area; fertilization and mowing

Predominant PM, N, and P sources

- o 5% Biogenic and 95% Anthropogenic

Description of catch basin

Type

- o Ditch Bottom Inlet Type A

Approximate age

- o 8 years

Previous cleaning activity

- o N/A

Condition

- o Fair, structure shows normal wear and tear, sediment build-up evident

Condition of PM residuals

- o Partly submerged/moist

Dimensions and volume

- o 12" x 18" RCP, 8' LF

Description of flow to catch basin

- o Direct run-off

Description of sampling method

- o Ponar grab, telescopic water sampler, plastic spoon, sieve, and pan. Each rinsed before and after each site with DI water

Traffic estimate (ADT)

- o 9300

Approx. weight of recovered sample

- o PM: ~3.8Kg and Aqueous: ~1.0Kg

Description of sample and COC

- o Moist PM
- o COC provided on 07.27.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - LEE COUNTY (LC - SS - C - OUT - 1)

Sample ID

- o LC - SS - C - OUT - 1

Jurisdiction

- o Lee County

Land Use Zoning

- o Commercial

Location

- o Hancock Bridge Pkwy/Beau Drive

Co-ordinates

- o N26.39.40.97, W81.53.27.01

Date and Time (with Previous Dry Hours)

- o 07/26/2010 10:25 AM
- o ~22

Sampling Personnel

- o Nina Infantado and Sue Fite

Description of Catchment

Pavement Type

- o Asphalt, no curb

Typical Geometry and R/W Section

- o Flat with curb, R/W: Right hand lane

Run-on Conditions

- o Highway, commercial buildings, parking lots

Drainage Appurtenances in the Catchment Area

- o Curb and gutter

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o 5% biogenic, 95% anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Eagle mechanical sweeper.

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 07/19/2010

Traffic Estimate (ADT)

- o 21,200

Approx. Weight of Recovered Sample

- o ~2.4 kg.

Description of Sample and COC

- o Moist
- o COC provided on 07.26.2010



Project: FSWMS4
Direction: North
Photographer: Nina Infantado
GPSLONG: W81.53.26.23
TIME: 10-26-34

Location Code: LC-SS-C-OUT-1
GPS Locked: Yes
GPSLAT: N26.39.48.82
DATE: 2010-07-26

ADT : average daily traffic
C : commercial land use
COC : chain of custody
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - LEE COUNTY (LC - SS - C - OUT - 2)

Sample ID

- o LC - SS - C - OUT - 2

Jurisdiction

- o Lee County

Land Use Zoning

- o Commercial

Location

- o Billy Creek Commerce/Luckett Road

Co-ordinates

- o W81.48.17.84, N26.39.3393

Date and Time (with Previous Dry Hours)

- o 07/26/2010 1:12 PM
- o ~25

Sampling Personnel

- o Nina Infatado and Sue Fite

Description of Catchment

Pavement Type

- o Asphalt, concrete gutter

Typical Geometry and R/W Section

- o Flat with curb, R/W: Right hand lane

Run-on Conditions

- o Commercial buildings, parking lots

Drainage Appurtenances in the Catchment Area

- o Curb and gutter

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o 5% biogenic, 95% anthropogenic

Reclaimed Water Application

- o No

Description if Sweeping Equipment

- o Elgin Eagle mechanical sweeper.

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 04/13/2010

Traffic Estimate (ADT)

- o 8,800

Approx. Weight of Recovered Sample

- o ~3.3 kg.

Description of Sample and COC

- o Moist
- o COC provided on 07.26.2010



Project: FSWMS4 Location Code: LC-SS-C-OUT-2
Direction: East GPS Locked: Yes
Photographer: Nina Infatado GPSLAT: N26.39.45.37
GPSLONG: W81.48.1.55 DATE: 2010-07-26
TIME: 13:16:38

ADT : average daily traffic
C : commercial land use
COC : chain of custody
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - LEE COUNTY (LC - SS - C - OUT - 3)

Sample ID

- o LC - SS - C - OUT - 3

Jurisdiction

- o Lee County

Land Use Zoning

- o Commercial

Location

- o Imperial Pkwy/Bonita Beach Rd

Co-ordinates

- o 26.32244, -81.76230

Date and Time (with Previous Dry Hours)

- o 05/04/2009 15:00 PM
- o ~288

Sampling Personnel

- o Nina Infantado and Eric Lindner

Description of Catchment

Pavement Type

- o N/A

Typical Geometry and R/W Section

- o Flat with curb, Right hand lane

Run-on Conditions

- o Highway runoff, road litter

Drainage Appurtenances in the Catchment Area

- o Curb and gutter

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o 10% biogenic, 90% anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o N/A

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 04/13/2010

Traffic Estimate (ADT)

- o 14,300

Approx. Weight of Recovered Sample

- o ~4 lbw.

Description of Sample and COC

- o Moist
- o COC provided on 05.04.09



ADT : average daily traffic
C : commercial land use
COC : chain of custody
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - LEE COUNTY (LC - SS - H - OUT - 1)

Sample ID

- o LC - SS - H - OUT - 1

Jurisdiction

- o Lee County

Land Use Zoning

- o Highway

Location

- o Del Prado Blvd./Kismet Pkwy up to Del Prado Blvd./Tamiami Trail (US 41)

Co-ordinates

- o N26.42.54.57, W81.55.57.28

Date and Time (with Previous Dry Hours)

- o 07/28/2010 10:15 AM
- o ~14

Sampling Personnel

- o Nina Infantado and Sue Fite

Description of Catchment

Pavement Type

- o Asphalt, concrete curb, and gutter

Typical Geometry and R/W Section

- o Flat with curb, R/W: Right hand lane (North bound of Del Prado Blvd.)

Run-on Conditions

- o Highway, commercial buildings, parking lots

Drainage Appurtenances in the Catchment Area

- o Curb and gutter

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o 5% biogenic, 95% anthropogenic

Reclaimed Water Application

- o No

Description if Sweeping Equipment

- o Elgin Whirlwind

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 07/19/2010

Traffic Estimate (ADT)

- o 23,200

Approx. Weight of Recovered Sample

- o ~2.3 kg.

Description of Sample and COC

- o Moist
- o COC provided on 07.28.2010



Project: FSWMS4
Direction: North
Photographer: Nina Infantado
GPSLONG: W81.54.55.44
TIME: 10-11-37

Location Code: LC-SS-H-OUT-1
GPS Locked: Yes
GPSLAT: N26.43.24.78
DATE: 2010-07-28

ADT : average daily traffic
COC : chain of custody
H : highway land use
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - LEE COUNTY (LC - SS - H - OUT - 2)

Sample ID

- o LC - SS - H - OUT - 2

Jurisdiction

- o Lee County

Land Use Zoning

- o Highway

Location

- o Sunshine Blvd/Lee Blvd

Co-ordinates

- o N26.36.59.62, W81.40.53.38

Date and Time (with Previous Dry Hours)

- o 07/26/2010 11:30 AM
- o ~19

Sampling Personnel

- o Nina Infantado and Sue Fite

Description of Catchment

Pavement Type

- o Asphalt with concrete curb and gutter

Typical Geometry and R/W Section

- o Flat with curb, R/W: Right hand lane

Run-on Conditions

- o Highway, commercial buildings, parking lots

Drainage Appurtenances in the Catchment Area

- o Curb and gutter

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o 5% biogenic, 95% anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Eagle Mechanical sweeper

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 07/17/2010

Traffic Estimate (ADT)

- o 30,700

Approx. Weight of Recovered Sample

- o ~3 kg.

Description of Sample and COC

- o Moist
- o COC provided on 07.26.2010



Project: FSWMS4
Direction: East
Photographer: Nina Infantado
GPSLONG: W81.40.14.05
TIME: 11-33-29

Location Code: LC-SS-H-OUT-2
GPS Locked: Yes
GPSLAT: N26.36.59.67
DATE: 2010-07-26

ADT : average daily traffic
COC : chain of custody
H : highway land use
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - LEE COUNTY (LC - SS - H - OUT - 3)

Sample ID

- o LC - SS - H - OUT - 3

Jurisdiction

- o Lee County

Land Use Zoning

- o Highway

Location

- o Bonita Beach Rd/Old 41

Co-ordinates

- o 26.633033, -81.81665

Date and Time (with Previous Dry Hours)

- o 05/04/2009 16:30 PM
- o ~288

Sampling Personnel

- o Nina Infantado and Sue Fite

Description of Catchment

Pavement Type

- o Asphalt with concrete curb and gutter

Typical Geometry and R/W Section

- o Flat roads cross section

Run-on Conditions

- o Used car dealerships, restaurants, small businesses, run-off from highway, road litter

Drainage Appurtenances in the Catchment Area

- o Curb and gutter to curb inlets

Significant Features that may affect PM, N and P loadings

- o Brick lined

Predominant Source

- o 10% biogenic, 90% anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Eagle Mechanical sweeper

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o Unknown

Traffic Estimate (ADT)

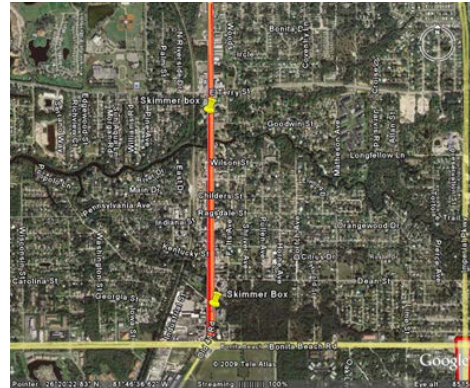
- o 29,300

Approx. Weight of Recovered Sample

- o ~4 lbs

Description of Sample and COC

- o Moist
- o COC provided on 05.04.09



ADT : average daily traffic
COC : chain of custody
H : highway land use
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - LEE COUNTY (LC - SS - R - OUT - 1)

Sample ID

- o LC - SS - R - OUT - 1

Jurisdiction

- o Lee County

Land Use Zoning

- o Residential

Location

- o Orange Grove Blvd./Birkdale. Alternate Site Used: St. Clair Ave/Vinsetta Ave.

Co-ordinates

- o N26.38.55.72, W81.54.52.38

Date and Time (with Previous Dry Hours)

- o 07/26/2010 9:45 AM
- o ~21

Sampling Personnel

- o Nina Infantedo and Sue Fite

Description of Catchment

Pavement Type

- o Asphalt with concrete gutter

Typical Geometry and R/W Section

- o Flat with curb, R/W: Right hand lane

Run-on Conditions

- o Houses, sidewalks

Drainage Appurtenances in the Catchment Area

- o Curb and gutter

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o 5% biogenic, 95% anthropogenic

Reclaimed Water Application

- o No

Description if Sweeping Equipment

- o Elgin Eagle mechanical sweeper

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 07/19/2010

Traffic Estimate (ADT)

- o 9600

Approx. Weight of Recovered Sample

- o ~3.6 kg.

Description of Sample and COC

- o Moist
- o COC provided on 07.26.2010



Project: FSWMS4 Location Code: LC-SS-R-OUT-1
Direction: North GPS Locked: Yes
Photographer: Nina Infantedo GPSLAT: N26.38.55.96
GPSLONG: W81.54.52.68 DATE: 2010-07-26
TIME: 09:50:40

ADT : average daily traffic
COC : chain of custody
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping

FIELD INFORMATION - LEE COUNTY (LC - SS - R - OUT - 2)

Sample ID

- o LC – SS – R – OUT – 2

Jurisdiction

- o Lee County

Land Use Zoning

- o Residential

Location

- o Harlem Heights @ Gladiolus and Robinson Rd

Co-ordinates

- o N26.31.11.59, W81.55.12.74

Date and Time (with Previous Dry Hours)

- o 07/26/2010 14:35 AM
- o ~20

Sampling Personnel

- o Nina Infantado and Sue Fite

Description of Catchment

Pavement Type

- o Asphalt with concrete curb & gutter

Typical Geometry and R/W Section

- o Flat with curb, R/W: Right hand lane

Run-on Conditions

- o Houses, sidewalks, highway

Drainage Appurtenances in the Catchment Area

- o Curb and gutter

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o 5% biogenic, 95% anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Eagle mechanical sweeper

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 07/19/2010

Traffic Estimate (ADT)

- o 7300

Approx. Weight of Recovered Sample

- o ~3.5 kg.

Description of Sample and COC

- o Moist
- o COC provided on 07.26.2010



Project: FSWMS4
Direction: West
Photographer: Nina Infantado
GPSLONG: E0.00.0.00
TIME: 14-49-04
Location Code: LC-SS-R-OUT-2
GPS Locked: Yes
GPSLAT: N0.00.0.00
DATE: 2010-07-26

ADT : average daily traffic
COC : chain of custody
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping

FIELD INFORMATION - LEE COUNTY (LC - SS - R - OUT - 3)

Sample ID

- o LC – SS – R – OUT – 3

Jurisdiction

- o Lee County

Land Use Zoning

- o Residential

Location

- o Preselected Location: San Carlos Park

Co-ordinates

- o N26.28.39.29, W81.50.3.84

Date and Time (with Previous Dry Hours)

- o 07/26/2010 13:50 AM
- o ~44

Sampling Personnel

- o Nina Infantado and Sue Fite

Description of Catchment

Pavement Type

- o Concrete shoulder/gutter, asphalt roadway

Typical Geometry and R/W Section

- o Flat with curb, R/W: Right hand lane

Run-on Conditions

- o Houses, sidewalks, some commercial

Drainage Appurtenances in the Catchment Area

- o Curb and gutter

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o 5% biogenic, 95% anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Eagle mechanical sweeper

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o Unknown

Traffic Estimate (ADT)

- o 9300

Approx. Weight of Recovered Sample

- o ~2.8 kg.

Description of Sample and COC

- o Moist
- o COC provided on 07.26.2010



Project: FSWMS4
Direction: East
Photographer: Nina_Infantado
GPSLONG: W81.50.3.84
TIME: 14-02-46

Location Code: NOMEMO
GPS Locked: Yes
GPSLAT: N26.28.39.29
DATE: 2010-07-26

ADT : average daily traffic
COC : chain of custody
LC : Lee County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping

MIAMI-DADE COUNTY (MDC)

FIELD INFORMATION - MIAMI DADE COUNTY (MDC - BMP - C - OUT -3)

Sample identification

- o MDC - BMP - C - OUT -3

Jurisdiction

- o Miami-Dade County

Land use zoning

- o Commercial

Location

- o 2617 NW 7 St

Co-ordinates

- o N/A

Date and time (with previous dry hours)

- o 07/19/2010 08:25 AM
- o pdh ~ 9

Sampling personnel

- o Scott Lamola, Mario Lopez

Description of catchment

Cover information

- o Canopy cover less than 10%

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Asphalt concrete in good condition, older than 5 yrs old. 70' R/W 4 lanes undivided curb & gutter with turning lanes. Road slopes from center line towards edge of pavement. Total pavement width is 58'.

Run-on conditions

- o Run on from sidewalks and adjacent businesses driveways. Commercial business such as Insurance Co, Hardware store, Car wash, gas station, etc. in the area contributing to Run-Off

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Concrete curb and gutter and concrete gutter within public R/W

Significant features influencing PM, N, P load

- o Curb & gutter catchment down gradient from surface staining on road.

Predominant PM, N, and P sources

- o Traffic

Description of BMP

Type

- o French drain

Approximate age

- o ~10 years

Previous cleaning activity

- o Cleaning is performed every 5 years

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o 36" x 36" diameter concrete sides & bottom

Description of flow to BMP

- o N/A

Description of sampling method

- o 2007 Sterling Vac-Con

Traffic estimate (ADT)

- o 16,981

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist particulate matter
- o COC provided on 07/23/2010



ADT : average daily traffic

BMP : best management practice

C : commercial land use

COC : chain of custody

MDC : Miami-Dade County

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

FIELD INFORMATION - MIAMI DADE COUNTY (MDC - BMP - C - OUT -6)

Sample identification

- o MDC - BMP - C - OUT -6

Jurisdiction

- o Miami-Dade County

Land use zoning

- o Commercial

Location

- o 250' West of NW 2 St/NW 79 Ave

Co-ordinates

- o N/A

Date and time (with previous dry hours)

- o 07/20/2010 02:20 PM

- o pdh ~ 9

Sampling personnel

- o Scott Lamola, Mario Lopez

Description of catchment

Cover information

- o Canopy cover was observed to be approximately 40% in the immediate surrounding area.

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Asphalt-concrete in good condition, older than 5 yrs old. 80' R/W 4 lanes divided (median) with curb & gutter. Road slopes from center line towards edge of pavement. Total pavement width is 48'.

Run-on conditions

- o Run on from sidewalks in the adjacent areas with slopes leading to low point at structure along curb

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb & Gutter with no adjacent permeable swale. Median consists of permeable swale/ curb & gutter.

Significant features influencing PM, N, P load

- o Curb & gutter catchment down gradient from surface staining on road. Leaf litter

Predominant PM, N, and P sources

- o Traffic

Description of BMP

Type

- o French drain

Approximate age

- o ~10 years

Previous cleaning activity

- o Cleaning is performed every 5 years

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o 36" x 36" Dia Concrete Basin

Description of flow to BMP

- o N/A

Description of sampling method

- o 2007 Sterling Vac-Con

Traffic estimate (ADT)

- o 9,544

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist particulate matter
- o COC provided on 07/22/2010



ADT : average daily traffic

BMP : best management practice

C : commercial land use

COC : chain of custody

MDC : Miami-Dade County

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

FIELD INFORMATION - MIAMI DADE COUNTY (MDC - BMP - C - OUT -9)

Sample identification

- o MDC - BMP - C - OUT -9

Jurisdiction

- o Miami-Dade County

Land use zoning

- o Commercial

Location

- o 18710 SW 107 Ave

Co-ordinates

- o N/A

Date and time (with previous dry hours)

- o 07/19/2010 03:19 PM
- o pdh ~ 16

Sampling personnel

- o Scott Lamola, Mario Lopez

Description of catchment

Cover information

- o Canopy cover was observed to be approximately 30% in the immediate surrounding area.

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Asphalt-concrete in good condition, less than 5 yrs old. 110' R/W 4 lanes divided (median) with curb & gutter and turning lanes at intersections. Road slopes from center line towards edge of pavement. Total pavement width is 58'.

Run-on conditions

- o Run on from sidewalks in the adjacent areas with slopes leading to low point at structure along curb.

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb & Gutter with permeable areas

Significant features influencing PM, N, P load

- o Curb & gutter catchment down gradient from surface staining on road. Landscape activities from Gas Station.

Predominant PM, N, and P sources

- o Traffic

Description of BMP

Type

- o French drain

Approximate age

- o ~10 years

Previous cleaning activity

- o Cleaning is performed every 5 years

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o 36" Dia Basin with 2 x 15" dia pipe running North/South.

Description of flow to BMP

- o N/A

Description of sampling method

- o 2007 Sterling Vac-Con

Traffic estimate (ADT)

- o 17,660

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist particulate matter
- o COC provided on 07/22/2010



ADT : average daily traffic

BMP : best management practice

C : commercial land use

COC : chain of custody

MDC : Miami-Dade County

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

FIELD INFORMATION - MIAMI DADE COUNTY (MDC - BMP - H - OUT -6)

Sample identification

- o MDC - BMP - H - OUT -6

Jurisdiction

- o Miami-Dade County

Land use zoning

- o Highway

Location

- o 100' East of NW 7 St./NW 84th Ave
(North side of NW 7th St)

Co-ordinates

- o N/A

Date and time (with previous dry hours)

- o 07/20/2010 3:07 PM
- o pdh ~ 10

Sampling personnel

- o Scott Lamola, Mario Lopez

Description of catchment

Cover information

- o Canopy cover was observed to be approximately 60%

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Asphalt-concrete in good condition, older than 5 yrs old. 80' R/W 4 lanes undivided with curb & gutter and center turning lane. Road slopes from center line towards edge of pavement. Total pavement width is 58'.

Run-on conditions

- o Run on from sidewalks in the adjacent areas with slopes leading to low point at structure along curb. Structure filled with water. The crown of road elevated

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb & Gutter with permeable areas

Significant features influencing PM, N, P load

- o Curb & gutter catchment down gradient from surface staining on road. Also leaf litter

Predominant PM, N, and P sources

- o Traffic

Description of BMP

Type

- o French drain

Approximate age

- o ~10 years

Previous cleaning activity

- o Cleaning is performed every 5 years

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o 36" Dia Basin No pipe observed, Depth = 61" Basin filled with water.

Description of flow to BMP

- o N/A

Description of sampling method

- o 2007 Sterling Vac-Con

Traffic estimate (ADT)

- o 21,529

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist particulate matter
- o COC provided on 07/23/2010



ADT : average daily traffic

BMP : best management practice

COC : chain of custody

H : highway land use

MDC : Miami-Dade County

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

FIELD INFORMATION - MIAMI DADE COUNTY (MDC - BMP - H - OUT -7)

Sample identification

- o MDC - BMP - H - OUT -7

Jurisdiction

- o Miami-Dade County

Land use zoning

- o Highway

Location

- o 1449 NW 17th Ave (East Side of NW 17th Ave)

Co-ordinates

- o N/A

Date and time (with previous dry hours)

- o 07/19/2010 09:54 AM
- o pdh ~ 10

Sampling personnel

- o Scott Lamola, Mario Lopez

Description of catchment

Cover information

- o Canopy cover was observed to be approximately 40%

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Asphalt-concrete in good condition, older than 5 yrs old. 70' R/W 2 lanes undivided with curb & gutter, Road slopes from center line towards edge of pavement. Total pavement width is 24'.

Run-on conditions

- o Run on from sidewalks and adjacent businesses driveways. The crown of road elevated

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb & Gutter with permeable areas

Significant features influencing PM, N, P load

- o Curb & gutter catchment down gradient from surface staining on road. Leaf litter

Predominant PM, N, and P sources

- o Traffic

Description of BMP

Type

- o French drain

Approximate age

- o ~10 years

Previous cleaning activity

- o Cleaning is performed every 5 years

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o 36" Dia Basin with 1 x 15" to South
Depth = 84" Debris/Sediment observed,
Inv=5'

Description of flow to BMP

- o N/A

Description of sampling method

- o 2007 Sterling Vac-Con

Traffic estimate (ADT)

- o 4,972

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist particulate matter
- o COC provided on 07/23/2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
MDC : Miami-Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - MIAMI DADE COUNTY (MDC - BMP - H - OUT -8)

Sample identification

- o MDC - BMP - H - OUT -8

Jurisdiction

- o Miami-Dade County

Land use zoning

- o Highway

Location

- o 200' West of SW 122 Ave/SW 152 St
(North side of SW 152 St.)

Co-ordinates

- o N/A

Date and time (with previous dry hours)

- o 07/20/2010 11:01 AM
- o pdh ~ 6

Sampling personnel

- o Scott Lamola, Mario Lopez

Description of catchment

Cover information

- o Canopy cover was observed to be approximately 60%

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Asphalt-concrete in good condition, older than 5 yrs old. 110' R/W 6 lanes divided (median) with curb & gutter. Road slopes from center line towards edge of pavement. Total pavement width is 72'.

Run-on conditions

- o Run on from sidewalks in the adjacent areas with slopes leading to low point at structure along curb. Structure filled with. The crown of road elevated

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb & Gutter with permeable areas

Significant features influencing PM, N, P load

- o Curb & gutter catchment down gradient from surface staining on road. Leaf litter

Predominant PM, N, and P sources

- o Traffic

Description of BMP

Type

- o French drain

Approximate age

- o ~10 years

Previous cleaning activity

- o Cleaning is performed every 5 years

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o 36" Dia Basin with 1 x 15" to South
Depth = 58" Basin filled with water.

Description of flow to BMP

- o N/A

Description of sampling method

- o 2007 Sterling Vac-Con

Traffic estimate (ADT)

- o 82,311

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist particulate matter
- o COC provided on 07/23/2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
MDC : Miami-Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - MIAMI DADE COUNTY (MDC - BMP - R - OUT -4)

Sample identification

- o MDC - BMP - R - OUT -4

Jurisdiction

- o Miami-Dade County

Land use zoning

- o Residential

Location

- o 30 NE 84th St (NE Corner of 84th St/N.Miami Ave)

Co-ordinates

- o N/A

Date and time (with previous dry hours)

- o 07/19/2010 11:10 AM
- o pdh ~ 12

Sampling personnel

- o Scott Lamola, Mario Lopez

Description of catchment

Cover information

- o Canopy cover was observed to be approximately 30%

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Asphalt-concrete in good condition, less than 5 yrs old. 70' R/W 2 lanes undivided with curb & gutter. Road slopes from center line towards edge of pavement. Total pavement width is 24'.

Run-on conditions

- o Run on from sidewalks in the adjacent areas with slopes leading to low point at structure along curb. The crown of road elevated in relation to the curb & gutter.

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Concrete curb & gutter, and concrete gutter within road R/W.

Significant features influencing PM, N, P load

- o Curb & gutter catchment down gradient from surface staining on road. Leaf litter

Predominant PM, N, and P sources

- o Traffic

Description of BMP

Type

- o French drain

Approximate age

- o ~10 years

Previous cleaning activity

- o Cleaning is performed every 5 years

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o 36"x36" concrete basin with 1 x 15"Dia pipe to North Depth=46" Basin filled with sediment/debris

Description of flow to BMP

- o N/A

Description of sampling method

- o 2007 Sterling Vac-Con

Traffic estimate (ADT)

- o 8,521

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist particulate matter
- o COC provided on 07.23.2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
MDC : Miami-Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - MIAMI DADE COUNTY (MDC - BMP - R - OUT -6)

Sample identification

- o MDC - BMP - R - OUT -6

Jurisdiction

- o Miami-Dade County

Land use zoning

- o Residential

Location

- o SW 127 Ave/SW 145 St (NW corner of intersection)

Co-ordinates

- o N/A

Date and time (with previous dry hours)

- o 07/20/2010 10:02 AM
- o pdh ~ 5

Sampling personnel

- o Scott Lamola, Mario Lopez

Description of catchment

Cover information

- o Canopy cover was observed to be approximately 40% in the immediate surrounding area.

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Asphalt-concrete in good condition, older than 5 yrs old. 100' R/W 4 lanes divided (median) with curb & gutter. Road slopes from center line towards edge of pavement. Total pavement width is 48'.

Run-on conditions

- o Run on from sidewalks in the adjacent areas with slopes leading to low point at structure along curb. Structure filled with. The crown of road is elevated

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Permeable swale with curb & gutter.

Significant features influencing PM, N, P load

- o Curb & gutter catchment down gradient from surface staining on road. Leaf litter

Predominant PM, N, and P sources

- o Traffic

Description of BMP

Type

- o French drain

Approximate age

- o ~10 years

Previous cleaning activity

- o Cleaning is performed every 5 years

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o 36" x 36" Trench filled with water, could not see openings. Depth = 86"

Description of flow to BMP

- o N/A

Description of sampling method

- o 2007 Sterling Vac-Con

Traffic estimate (ADT)

- o 5,790

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist particulate matter
- o COC provided on 07/23/2010



ADT : average daily traffic

BMP : best management practice

COC : chain of custody

MDC : Miami-Dade County

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

FIELD INFORMATION - MIAMI DADE COUNTY (MDC - BMP - R - OUT -9)

Sample identification

- o MDC - BMP - R - OUT -9

Jurisdiction

- o Miami-Dade County

Land use zoning

- o Residential

Location

- o 11425 SW 216th St (Northside of SW 216 St)

Co-ordinates

- o N/A

Date and time (with previous dry hours)

- o 07/19/2010 2:05 PM
- o pdh ~ 15

Sampling personnel

- o Scott Lamola, Mario Lopez

Description of catchment

Cover information

- o Canopy cover was observed to be approximately 30%

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Asphalt-concrete in good condition, older than 5 yrs old. 110' R/W 4 lanes undivided with curb & gutter and curbside parking on North side of street. Road slopes from center line towards edge of pavement. Total pavement width is 58'.

Run-on conditions

- o Run on from sidewalks in the adjacent areas with slopes leading to low point at structure along curb. Elevated crown

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb & Gutter with permeable areas

Significant features influencing PM, N, P load

- o Curb & gutter catchment down gradient from surface staining on road. Leaf litter

Predominant PM, N, and P sources

- o Traffic

Description of BMP

Type

- o French drain

Approximate age

- o ~10 years

Previous cleaning activity

- o Cleaning is performed every 5 years

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o 36" x 36" Slab Covered Trench with openings to the North and South, Depth = 75" Bottom full of sediment/debris.

Description of flow to BMP

- o N/A

Description of sampling method

- o 2007 Sterling Vac-Con

Traffic estimate (ADT)

- o 6,784

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist particulate matter
- o COC provided on 07/22/2010



ADT : average daily traffic

BMP : best management practice

COC : chain of custody

MDC : Miami-Dade County

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

FIELD INFORMATION - MIAMI - DADE (MDC - CB - C - OUT - 1)

Sample identification

- o MDC – CB – C – OUT – 1

Jurisdiction

- o Miami – Dade County

Land use zoning

- o Commercial

Location

- o Across Street from 2255 NE 164 St.

Co-ordinates

- o 25.92720 N and 80.15480 W

Date and time (with previous dry hours)

- o 4/22/2009 1:20 PM

- o pdh ~ 48

Sampling personnel

- o S. Lamola and C. Cortes

Description of catchment

Cover information

- o No significant canopy nearby and 6 yr asphalt street in good condition

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Appears down gradient from western end of street

Run-on conditions

- o Run-on from commercial buildings, sidewalks, driveways, street and grass swales

Reclaimed water application

- o No

Basic description of soil type

- o Sandy limestone soils

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o Commercial trash bin located nearby, street is frequented by slow moving and stopping delivery vehicles, and grease trap servicing behind restaurant nearby

Predominant PM, N, and P sources

- o Anthropogenic (traffic)

Description of catch basin

Type

- o Cinder block catch basin

Approximate age

- o > 10 years

Previous cleaning activity

- o Cleaned once a week

Condition

- o N/A

Condition of PM residuals

- o Dry

Dimensions and volume

- o 24 in (w) x 33 in (l) x 46 in (d)

Description of flow to catch basin

- o Runoff from street and surrounding area

Description of sampling method

- o PM scooped from multiple areas and depths, surface debris and growing vegetation removed

Traffic estimate (ADT)

- o 48835

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dry sandy PM
- o COC provided on 04/22/09



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
MDC : Miami – Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - MIAMI - DADE (MDC - CB - C - OUT - 2)

Sample identification

- o MDC – CB – C – OUT – 2

Jurisdiction

- o Miami – Dade County

Land use zoning

- o Commercial

Location

- o NW 197th St. and NW 1st Pl.

Co-ordinates

- o 25.9556 N and 80.20490 W

Date and time (with previous dry hours)

- o 4/22/2009 12:30 PM
- o pdh ~ 24 (last storm 0.41")

Sampling personnel

- o S. Lamola and C. Cortes

Description of catchment

Cover information

- o 1 small ficus tree overhangs CB

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o CB located in a depressed area of asphalted parking lot

Run-on conditions

- o Flow from nearby flat roofed buildings, street, and parking lots

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Anthropogenic (traffic)

Description of catch basin

Type

- o Catch basin

Approximate age

- o > 10 years

Previous cleaning activity

- o Once per month

Condition

- o Dry

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 18 in (w) x 73 in (d) x 24 in (l)

Description of flow to catch basin

- o Runoff from crown of road originating from east and west directions

Description of sampling method

- o Sediments were scooped from different sides and bottom

Traffic estimate (ADT)

- o 57350

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 04/22/09



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
MDC : Miami – Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - MIAMI - DADE (MDC - CB - C - OUT - 3)

Sample identification

- o MDC – CB – C – OUT – 3

Jurisdiction

- o Miami – Dade County

Land use zoning

- o Commercial

Location

- o 3950 N Miami Ave.

Co-ordinates

- o 25.81260 N and 80.19590 W

Date and time (with previous dry hours)

- o 4/20/2009 10:40 AM
- o pdh ~ 120 (last storm 0.41")

Sampling personnel

- o S. Lamola and C. Cortes

Description of catchment

Cover information

- o Large mahogany tree located across street, branches extend to crown of road and some other modest trees and shrubs lie nearby

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Street is mostly level with some slight downhill sloping from the west

Run-on conditions

- o In down gradient flow zone of street curb side parking

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic (traffic) and some Biogenic (leaves)

Description of catch basin

Type

- o Catch basin

Approximate age

- o > 10 years

Previous cleaning activity

- o Cleaned twice a week

Condition

- o Dry

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 18 in (w) x 73 in (d) x 24 in (l)

Description of flow to catch basin

- o Runoff from crown of road originating from east and west directions

Description of sampling method

- o Sediments were scooped out from all locations, small pieces of litter debris were removed

Traffic estimate (ADT)

- o 5421

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dry Gray PM
- o COC provided on 04/22/09



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
MDC : Miami – Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - MIAMI - DADE (MDC - CB - C - OUT - 4)

Sample identification

- o MDC – CB – C – OUT – 4

Jurisdiction

- o Miami – Dade County

Land use zoning

- o Commercial

Location

- o NW 31st Ave. and NW 75th St.

Co-ordinates

- o 25.84260 N and 80.24780 W

Date and time (with previous dry hours)

- o 4/22/2009 10:45 AM
- o pdh ~ 48

Sampling personnel

- o S. Lamola and C. Cortes

Description of catchment

Cover information

- o Minimal canopy, some plants nearby, and 6-8 yr old asphalt street with some cracking and erosion

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Appears down gradient from western end of street

Run-on conditions

- o Run-on from adjacent years, swales, sidewalks, and street

Reclaimed water application

- o No

Basic description of soil type

- o Sandy limestone soils

Drainage appurtenances in the area

- o Permeable swales and other CBs

Significant features influencing PM, N, P load

- o Road leading into and around area in bad condition, a lot of street staining observed and air pollution and poor dust control in area

Predominant PM, N, and P sources

- o Anthropogenic (traffic)

Description of catch basin

Type

- o Catch basin

Approximate age

- o > 10 years

Previous cleaning activity

- o Cleaned once a month

Condition

- o N/A

Condition of PM residuals

- o Dry

Dimensions and volume

- o 36 in (dia) x 46 in (d)

Description of flow to catch basin

- o Runoff from street and surrounding area

Description of sampling method

- o PM scooped from North, South, and center side of basin and debris (grass clippings) removed

Traffic estimate (ADT)

- o 15092

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Grey PM
- o COC provided on 04/22/09



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
MDC : Miami – Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - MIAMI - DADE (MDC - CB - C - OUT - 5)

Sample identification

- o MDC – CB – C – OUT – 5

Jurisdiction

- o Miami – Dade County

Land use zoning

- o Commercial

Location

- o 1780 W 4th Ave. Hialeah

Co-ordinates

- o 25.83770 N and 80.29030 W

Date and time (with previous dry hours)

- o 4/24/2009 1:30 PM

- o pdh ~ 96

Sampling personnel

- o S. Lamola and C. Cortes

Description of catchment

Cover information

- o 1 large ficus tree located near CB and >10 year asphalt pavement with minor cracking

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Appears down gradient from western end of street

Run-on conditions

- o Run-on from building roof drainage, parking, and roadway

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Wide gutter and catch basins along both sides of street

Significant features influencing PM, N, P load

- o Highly industrialized area, curb side parking, and possible air pollution from nearby elevated rail road and industry

Predominant PM, N, and P sources

- o Anthropogenic (traffic)

Description of catch basin

Type

- o Concrete catch basin

Approximate age

- o > 10 years

Previous cleaning activity

- o Cleaned six times a year

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o 24 in (w) x 16 in (l) x 56 in (d)

Description of flow to catch basin

- o Wide gutter channel flow along parking area to CB

Description of sampling method

- o PM removed from top 1-4" at four sides of basin and from center at 5-15", leaves and debris removed

Traffic estimate (ADT)

- o 25833

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Grainy dark sediment mixed with lighter colored sand and small rocks
- o COC provided on 04/28/09



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
MDC : Miami – Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - MIAMI - DADE (MDC - CB - C - OUT - 6)

Sample identification

- o MDC – CB – C – OUT – 6

Jurisdiction

- o Miami – Dade County

Land use zoning

- o Commercial

Location

- o 11317 W Flagler St.

Co-ordinates

- o 25.76940 N and 80.38110 W

Date and time (with previous dry hours)

- o 4/17/2009 9:40 AM

- o pdh ~ 48

Sampling personnel

- o S. Lamola and C. Cortes

Description of catchment

Cover information

- o Canopy of medium mixed trees and shrubs

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Crown of road drains to lower elevation

Run-on conditions

- o Run-on from street, swale, sidewalk, driveways, and housing yards to grass swales surrounding CB apron

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o CB recessed elevation promotes drainage of erosion products into the CB

Predominant PM, N, and P sources

- o Anthropogenic (traffic)

Description of catch basin

Type

- o Catch basin with French bottom

Approximate age

- o > 10 years

Previous cleaning activity

- o Cleaned once a month

Condition

- o N/A

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 84 in (w) x 79 in (d) x 48 in (l)

Description of flow to catch basin

- o Runoff from street and surrounding

Description of sampling method

- o Globs of PM removed from below water level and placed in HDPE container

Traffic estimate (ADT)

- o 2571

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Muddy saturated PM
- o COC provided on 04/16/09



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
MDC : Miami – Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - MIAMI - DADE (MDC - CB - C - OUT - 9)

Sample identification

- o MDC – CB – C – OUT – 9

Jurisdiction

- o Miami – Dade County

Land use zoning

- o Commercial

Location

- o SW 177th Ave and N 4th St, Homestead

Co-ordinates

- o 25.47340 N and 80.47660 W

Date and time (with previous dry hours)

- o 4/17/2009 9:40 AM
- o pdh ~ 48

Sampling personnel

- o S. Lamola and C. Cortes

Description of catchment

Cover information

- o Modest canopy and small trees located along area of CB

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Mild slope East towards sidewalk

Run-on conditions

- o Run-on from commercial buildings, sidewalks, driveways and street

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o Located along curbside parking

Predominant PM, N, and P sources

- o Anthropogenic (traffic)

Description of catch basin

Type

- o Catch basin with French bottom

Approximate age

- o < 10 years

Previous cleaning activity

- o Cleaned six times a year

Condition

- o N/A

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 36 in (dia) x 48 in (depth to debris)

Description of flow to catch basin

- o Runoff from street and surrounding

Description of sampling method

- o Debris pushed aside with sampler and scoops retrieved from all areas to about 3" deep

Traffic estimate (ADT)

- o 2571

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dark gray PM
- o COC provided on 04/22/09



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
MDC : Miami – Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - MIAMI - DADE (MDC - CB - H - OUT - 6)

Sample identification

- o MDC – CB – H – OUT – 6

Jurisdiction

- o Miami – Dade County

Land use zoning

- o Highway

Location

- o 200' East of SW 82 Ave and Flagler St.(North side of street)

Co-ordinates

- o 25.76988 N and 80.32779 W

Date and time (with previous dry hours)

- o 7/20/2010 1:35 PM
- o pdh ~ 13

Sampling personnel

- o S. Lamola and M. Lopez

Description of catchment

Cover information

- o Large black olive tree nearby, canopy cover < 20%, and > 10 year asphalt pavement with little to no cracking

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o 6-lane highway, slopes from median towards curb and gutter

Run-on conditions

- o Run-on from building roof drainage, parking lot, and roadway

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter with CBs located along both sides of street

Significant features influencing PM, N, P load

- o Heavy traffic

Predominant PM, N, and P sources

- o Anthropogenic (Traffic)

Description of catch basin

Type

- o Catch basin

Approximate age

- o > 10 years

Previous cleaning activity

- o Cleaned six times a year

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o 36 in (l) x 36 in (w) x 65 in

Description of flow to catch basin

- o Road drains to swales, intersection, and driveways

Description of sampling method

- o PM scooped from all areas and depths

Traffic estimate (ADT)

- o 53372

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dark brown PM consisting of mixed grainy soil, leaves, sticks, and small rocks
- o COC provided on 07/22/2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
MDC : Miami – Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - MIAMI - DADE (MDC - CB - H - OUT - 7)

Sample identification

- o MDC – CB – H – OUT – 7

Jurisdiction

- o Miami – Dade County

Land use zoning

- o Highway

Location

- o 2360 SW 16th St.

Co-ordinates

- o 25.75910 N and 80.23370 W

Date and time (with previous dry hours)

- o 4/15/2009 12:15 PM
- o pdh ~ 96

Sampling personnel

- o S. Lamola

Description of catchment

Cover information

- o Medium canopy and trees and asphalt road in good condition

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Slopes down towards the east

Run-on conditions

- o Run-on from road, yards, and driveways

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter with CBs located along both sides of street

Significant features influencing PM, N, P load

- o High density of automobile parking, multiple staining observed, and heavy pedestrian traffic contributes to litter

Predominant PM, N, and P sources

- o Anthropogenic (traffic)

Description of catch basin

Type

- o Concrete catch basin

Approximate age

- o > 10 years

Previous cleaning activity

- o Cleaned twice a month

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o 32 in (dia) x 68 in (d)

Description of flow to catch basin

- o Wide gutter channel flow along parking area to CB

Description of sampling method

- o Large debris removed from CB prior to sampling

Traffic estimate (ADT)

- o 22349

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 04/17/09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
MDC : Miami – Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - MIAMI - DADE (MDC - CB - H - OUT - 8)

Sample identification

- o MDC – CB – H – OUT – 8

Jurisdiction

- o Miami – Dade County

Land use zoning

- o Highway

Location

- o SW 82nd Ave. and SW 110th Terrace
across from 11020 SW 82nd Ave.

Co-ordinates

- o 25.66770 N and 80.3267 W

Date and time (with previous dry hours)

- o 4/15/2009 8:30 AM
- o pdh ~ 96

Sampling personnel

- o S. Lamola and C. Cortes

Description of catchment

Cover information

- o Large grass swales on both sides of street and high canopy close to crown of street and CB apron steeply sloped down gradient from street and swales

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Slopes down towards the east

Run-on conditions

- o Run-on from road, yards, and driveways

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter with CBs located along both sides of street

Significant features influencing PM, N, P load

- o Potential landscape chemicals

Predominant PM, N, and P sources

- o Biogenic (vegetation)

Description of catch basin

Type

- o Catch basin with apron

Approximate age

- o < 10 years

Previous cleaning activity

- o Cleaned once a month

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o 36 in (dia) x 54 in (d)

Description of flow to catch basin

- o Road drains to swales, intersection, and driveways

Description of sampling method

- o PM removed from all sides towards bottom from area below pipe, leaves removed after scooping

Traffic estimate (ADT)

- o 15233

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dark brown PM
- o COC provided on 04/16/09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
MDC : Miami – Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - MIAMI - DADE (MDC - CB - R - OUT - 1)

Sample identification

- o MDC – CB – H – OUT – 1

Jurisdiction

- o Miami – Dade County

Land use zoning

- o Residential

Location

- o 1400 NE 203 St.

Co-ordinates

- o 25.96240 N and 80.17400 W

Date and time (with previous dry hours)

- o 4/2/2009 9:15 AM

- o pdh~96

Sampling personnel

- o S. Lamola

Description of catchment

Cover information

- o Medium canopy with oaks, palms and shrubs, approaches crown of road

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o 6-lane highway, slopes from median towards curb and gutter

Run-on conditions

- o Run-on from residential driveways, roofs, and yards

Reclaimed water application

- o No

Basic description of soil type

- o Fine sandy limestone

Drainage appurtenances in the area

- o Three other CBs with aprons in immediate area

Significant features influencing PM, N, P load

- o Color staining on CB apron (pink and light brown) and signs of erosion paths towards CB

Predominant PM, N, and P sources

- o Driveways and yards

Description of catch basin

Type

- o Catch basin

Approximate age

- o > 10 years

Previous cleaning activity

- o Cleaned once a week

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o 36 in (dia) x 65 in (d)

Description of flow to catch basin

- o Runoff from streets, sidewalks, yards, and grass swales

Description of sampling method

- o Surface leaves moved away and PM scooped from multiple areas

Traffic estimate (ADT)

- o 8805

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dark sandy PM
- o COC provided on 04/06/09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
MDC : Miami – Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - MIAMI - DADE (MDC - CB - R - OUT - 3)

Sample identification

- o MDC – CB – H – OUT – 3

Jurisdiction

- o Miami – Dade County

Land use zoning

- o Residential

Location

- o 5801 NW 1st Ave.

Co-ordinates

- o 25.82870 N and 80.19760 W

Date and time (with previous dry hours)

- o 4/20/2009 12:05 PM

- o pdh~120

Sampling personnel

- o S. Lamola and C. Cortes

Description of catchment

Cover information

- o Medium-large mango tree located in adjacent yard and other trees throughout neighborhood, 8-10 year asphalt road with fine lined cracks

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Run-on from roofs, yards, sidewalks, and adjacent hard packed swale

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Intersection has four CBs, one at each corner

Significant features influencing PM, N, P load

- o Possible vehicle related discharges or dust from nearby commercial areas

Predominant PM, N, and P sources

- o Erosion and vegetation (leaf drop)

Description of catch basin

Type

- o Catch basin

Approximate age

- o > 10 years

Previous cleaning activity

- o Cleaned once a week

Condition

- o Depressed and damaged CB apron

Condition of PM residuals

- o Dry

Dimensions and volume

- o 36 in (w) x 24 in (l) x 58 in (d)

Description of flow to catch basin

- o Run-off from roofs, yards, and sidewalks

Description of sampling method

- o PM collected and most leaves removed

Traffic estimate (ADT)

- o 5421

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dry grainy PM
- o COC provided on 04/22/09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
MDC : Miami – Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - MIAMI - DADE (MDC - CB - R - OUT - 4)

Sample identification

- o MDC – CB – H – OUT – 4

Jurisdiction

- o Miami – Dade County

Land use zoning

- o Residential

Location

- o 9954 NW 77th St.

Co-ordinates

- o 25.84460 N and 80.21310 W

Date and time (with previous dry hours)

- o 4/8/2009 8:30 AM
- o pdh~240

Sampling personnel

- o S. Lamola

Description of catchment

Cover information

- o Small canopy in area and 5 year old asphalt street with minor fine cracks

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Street slopes back from intersection and crown of road drains to swales

Run-on conditions

- o Run-on from lawn and driveway of houses

Reclaimed water application

- o No

Basic description of soil type

- o Fine sandy limestone

Drainage appurtenances in the area

- o Grass swales and catch basins

Significant features influencing PM, N, P load

- o Stained asphalt surface and some erosion of sediments

Predominant PM, N, and P sources

- o Anthropogenic (traffic)

Description of catch basin

Type

- o Catch basin

Approximate age

- o > 10 years

Previous cleaning activity

- o Cleaned once a week

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o 32 in (dia)

Description of flow to catch basin

- o Runoff from lawn and driveway of houses

Description of sampling method

- o PM scooped from 2 dies and bottom on north side of basin

Traffic estimate (ADT)

- o 15092

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dark moist PM
- o COC provided on 04/13/09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
MDC : Miami – Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - MIAMI - DADE (MDC - CB - R - OUT - 5)

Sample identification

- o MDC – CB – H – OUT – 5

Jurisdiction

- o Miami – Dade County

Land use zoning

- o Residential

Location

- o 5030 E 1st Ct., Hialeah

Co-ordinates

- o 25.86830 N and 80.27980 W

Date and time (with previous dry hours)

- o 4/24/2009 12:05 PM
- o pdh~96

Sampling personnel

- o S. Lamola and C. Cortes

Description of catchment

Cover information

- o All residential with little canopy, swales mostly St. Augustine grass, and 10 year crack asphalt road

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Run-on from street, elevated grass swales, sidewalk, and large driveway

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Grass covered swales and CBs

Significant features influencing PM, N, P load

- o Vehicles passing from commercial areas may contribute contamination

Predominant PM, N, and P sources

- o Mixed traffic and parcel ground run off

Description of catch basin

Type

- o Catch basin

Approximate age

- o > 10 years

Previous cleaning activity

- o Cleaned six times a year

Condition

- o CB apron cracked and patched

Condition of PM residuals

- o N/A

Dimensions and volume

- o 36 in (dia) x 58 in (d)

Description of flow to catch basin

- o Sediment scooped from all areas of CB and placed in stainless steel tray, and misc. debris removed (grass clippings)

Description of sampling method

- o PM collected and most leaves removed

Traffic estimate (ADT)

- o 7057

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dark sediment with small rocks
- o COC provided on 04/28/09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
MDC : Miami – Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - MIAMI - DADE (MDC - CB - R - OUT - 6)

Sample identification

- o MDC – CB – H – OUT – 6

Jurisdiction

- o Miami – Dade County

Land use zoning

- o Residential

Location

- o 14379 SW 9th St.

Co-ordinates

- o 25.75860 N and 80.42860 W

Date and time (with previous dry hours)

- o 4/16/2009 11:30 AM
- o pdh~24

Sampling personnel

- o S. Lamola and C. Cortes

Description of catchment

Cover information

- o Little tree canopy, some medium size palms and shrubs, and 4-5 year asphalt in good condition

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Run-on from North side of intersection, driveway, house swale and from yard

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter, CBs, swales, and canal

Significant features influencing PM, N, P load

- o Newly developed residential area, erosion from surrounding area of loose soils, and some agriculture in area in previous years so potential residual pesticides

Predominant PM, N, and P sources

- o Erosion

Description of catch basin

Type

- o Catch basin

Approximate age

- o < 10 years

Previous cleaning activity

- o Cleaned once a month

Condition

- o Asphalt apron cracking

Condition of PM residuals

- o Moist

Dimensions and volume

- o 36" basin with 15" French drain flow and 2.9' invert

Description of flow to catch basin

- o Flow from driveway, house swale, and front yard

Description of sampling method

- o Sediment layers were scooped along both edges of CB and dug towards bottom near center of CB

Traffic estimate (ADT)

- o 22886

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Sediment mixed with vegetation
- o COC provided on 04/13/09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
MDC : Miami – Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - MIAMI - DADE (MDC - CB - R - OUT - 7)

Sample identification

- o MDC – CB – H – OUT – 7

Jurisdiction

- o Miami – Dade County

Land use zoning

- o Residential

Location

- o 1177 SW 13th St.

Co-ordinates

- o 25.76080 N and 80.21410 W

Date and time (with previous dry hours)

- o 4/10/2009 1:30 PM
- o pdh~288

Sampling personnel

- o S. Lamola

Description of catchment

Cover information

- o Heavy canopy of mature trees (oak and mahogany)

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o CB located at bottom of hill

Run-on conditions

- o Run-on from street, sidewalk, and gutter system

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter CBs and high percentage of permeable surface areas

Significant features influencing PM, N, P load

- o Nearby coral rock ridge, curbside parking, potential landscape chemicals from outdoor sports facility, and street surface stains

Predominant PM, N, and P sources

- o Biogenic (vegetation)

Description of catch basin

Type

- o Catch basin

Approximate age

- o > 10 years

Previous cleaning activity

- o Cleaned twice a month

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o 32 in (l) x 32 in (w) x 109 in (d)

Description of flow to catch basin

- o Runoff from street, sidewalk, and gutter system flowing downhill from the east

Description of sampling method

- o Tree leaves were pushed aside and PM scooped and placed in stainless steel tray

Traffic estimate (ADT)

- o 15420

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on



ADT : average daily traffic
CB : catch basin
COC : chain of custody
MDC : Miami – Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - MIAMI - DADE (MDC-CB-R-OUT-8)

Sample identification

- o MDC – CB – H – OUT – 8

Jurisdiction

- o Miami – Dade County

Land use zoning

- o Residential

Location

- o 8260 SW 98th St.

Co-ordinates

- o 25.67910 N and 80.32910 W

Date and time (with previous dry hours)

- o 4/8/2009 12:15 PM
- o pdh~240

Sampling personnel

- o S. Lamola

Description of catchment

Cover information

- o Medium-large canopy, one large oak tree shadows CB, and >6 year asphalt in good condition

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Street slopes run towards intersection from both sides of SW 98th St.

Run-on conditions

- o Run on to CB from roads edge and swale areas

Reclaimed water application

- o No

Basic description of soil type

- o Sandy soil

Drainage appurtenances in the area

- o Swales, CBs, and highly permeable coral rock subsurface

Significant features influencing PM, N, P load

- o Potential landscape chemicals and many homes in area use septic tanks

Predominant PM, N, and P sources

- o Biogenic (vegetation)

Description of catch basin

Type

- o Catch basin

Approximate age

- o > 10 years

Previous cleaning activity

- o Cleaned once a month

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o 26 in (l) x 16 in (w) x 36 in (d)

Description of flow to catch basin

- o Runoff from lawn and driveway of houses

Description of sampling method

- o PM removed from all sides towards bottom from area below pipe, leaves separated from sample

Traffic estimate (ADT)

- o 13108

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dark brown PM
- o COC provided on 04/13/09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
MDC : Miami – Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - MIAMI - DADE (MDC - CB - R - OUT - 9)

Sample identification

- o MDC – CB – H – OUT – 9

Jurisdiction

- o Miami – Dade County

Land use zoning

- o Residential

Location

- o 15510 Harding Ln.

Co-ordinates

- o 25.49420 N and 80.44350 W

Date and time (with previous dry hours)

- o 4/17/2009 12:40 PM
- o pdh~48

Sampling personnel

- o S. Lamola and C. Cortes

Description of catchment

Cover information

- o Modest canopy consist mostly of palms and shrubs, 6-8 year asphalt road in good condition

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Harding Ln. slopes to intersection

Run-on conditions

- o Run-on from grass swales and front yards

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Permeable swales and CBs

Significant features influencing PM, N, P load

- o Signs of erosion around CB apron

Predominant PM, N, and P sources

- o Erosion and vegetation

Description of catch basin

Type

- o Catch basin

Approximate age

- o > 10 years

Previous cleaning activity

- o Cleaned six times a year

Condition

- o Asphalt apron cracking

Condition of PM residuals

- o Moist

Dimensions and volume

- o 36 in (w) x 36 in (l) x 65 in (d)

Description of flow to catch basin

- o Flow from driveway, house swale, and front yard

Description of sampling method

- o Sediment scooped from CB and placed into stainless steel tray

Traffic estimate (ADT)

- o 9926

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Sediment mixed with vegetation
- o COC provided on 04/22/09



ADT : average daily traffic

CB : catch basin

COC : chain of custody

MDC : Miami – Dade County

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

FIELD INFORMATION - MIAMI-DADE COUNTY (MDC - SS - C - OUT - 1)

Sample ID

- o MDC – SS – C – OUT – 1

Jurisdiction

- o Miami-Dade County

Land Use Zoning

- o Commercial

Location

- o From NE 167th St to NE 172nd St along W. Dixie Hwy. Both North and South bound lanes were cleaned for sample. Also, from NE 183rd St to Miami Gardens Rd. along NE 18th Rd. median.

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 05/24/2010 11:11 AM
- o ~8

Sampling Personnel

- o S Lamola/M Lopez

Description of Catchment

Pavement Type

- o N/A

Typical Geometry and R/W Section

- o 100' R/W 2 lanes undivided with a center turning lane. Asphalt concrete pavement with wide grassy swales on both sides. Road slopes from center line towards edge of pavement/swales. Pavement is more than 7 yrs old. Pavement width of swept area is 12' along outer edges of road. Total pavement width is 24'. A very small area swept included curb & gutter (less than 10%).

Run-on Conditions

- o Commercial area consisting mainly of small businesses, restaurants, stores. Run-off source appears to come from roofs and driveways from both sides of street. 2 lanes with curb/ gutter as well as some grassy areas (swales) with edge of pavement from asphalt road. Canopy cover at approximately 35% throughout area. Lane width 12'.

Drainage Appurtenances in the Catchment Area

- o N/A

Significant Features that may affect PM, N and P loadings

- o Curb & gutter catchment down gradient from surface staining on road. Also good catchment for fallen leaves from R/W & overhanging vegetation.

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description if Sweeping Equipment

- o 2009 Elgin Whirlwind Model M2106

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 05/17/2010

Traffic Estimate (ADT)

- o 10867

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o Moist
- o COC provided on 05/26/2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
MDC : Miami-Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - MIAMI-DADE COUNTY (MDC - SS - C - OUT - 3)

Sample ID

- o MDC – SS – C – OUT – 3

Jurisdiction

- o Miami-Dade County

Land Use Zoning

- o Commercial

Location

- o From SW 62nd Ave/ SW 8 St East to SW 57th Ave then South to SW 16th St then West 800'. Only 1 side of the road was cleaned for sample.

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 05/05/2009 1:00 PM
- o ~352.78

Sampling Personnel

- o S Lamola/M Lopez

Description of Catchment

Pavement Type

- o Asphalt, no curb

Typical Geometry and R/W Section

- o 80' R/W 4 lanes undivided with a turning lane in the center., Asphalt concrete pavement with curb& gutters. Road slopes from center line towards curb & gutter on outer edges. Pavement is more than 5 yrs old. Pavement width of swept area is 12' along outer edges of road. Total pavement width is 58'.

Run-on Conditions

- o SW 62nd Ave to SW 57th Ave along SW 8th St: Only the 2 east bound lane with curb and gutters, only 12' lane closest to curb/gutter was cleaned. Commercial properties contributing to run-off from parking lots and building roofs. Sidewalk on both sides of the street. SW 57th Ave / SW 8th St to SW 16th St: Commercial properties located throughout sweeping area. Curb and gutter along with swale areas throughout the route. Grassy swales and driveways throughout. Commercial properties contributing to run-off from parking lots

and building roofs. Lane width 12'.

Drainage Appurtenances in the Catchment Area

- o N/A

Significant Features that may affect PM, N and P loadings

- o Curb & gutter catchment down gradient from surface staining on road. Direct run-off from bordering properties.

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 1998 Elgin Broom Bear

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 05/06/2010

Traffic Estimate (ADT)

- o 40500

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o Moist
- o COC provided on 05/26/2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
MDC : Miami-Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - MIAMI-DADE COUNTY (MDC - SS - C - OUT - 6)

Sample ID

- o MDC – SS – C – OUT – 6

Jurisdiction

- o Miami-Dade County

Land Use Zoning

- o Commercial

Location

- o From NW 110th Ave/ NW 25th St South to NW 14th St. Both North and South Bound was cleaned for sample.

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 05/21/2010 7:42 AM
- o ~6

Sampling Personnel

- o S Lamola/M Lopez

Description of Catchment

Pavement Type

- o N/A

Typical Geometry and R/W Section

- o 70' R/W 2 lanes undivided with a center turning lane, Asphalt concrete pavement with valley gutters. Road slopes from center line towards valley gutter on outer edges. Pavement is less more than 5 yrs old. Pavement width of swept area is 12' along outer edges of road. Total pavement width is 34'.

Run-on Conditions

- o 3 lanes with center lane being a turn lane, only concrete gutter along edge of pavement. Run on from asphalt sidewalks, and green areas belonging bordering both sides of the road. The road R/W seems elevated to the adjoining properties. Possible contributors may be from litter from motorists, landscape companies working in the area using oil/fuel for machinery, some adjacent construction work being done around perimeter of area cleaned may also be a contributor. Lane width 12'.

Drainage Appurtenances in the Catchment Area

- o N/A

Significant Features that may affect PM, N and P loadings

- o Concrete gutter catchment down gradient from surface staining on road. Trucks travel area frequently can add to materials left behind on streets.

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description if Sweeping Equipment

- o 2005 Elgin Eagle Sterling SC8000 Street Sweeper

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 05/04/2009

Traffic Estimate (ADT)

- o 17675

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o Moist
- o COC provided on 05.26.2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
MDC : Miami-Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - MIAMI-DADE COUNTY (MDC - SS - C - OUT - 7)

Sample ID

- o MDC – SS – C – OUT – 7

Jurisdiction

- o Miami-Dade County

Land Use Zoning

- o Commercial

Location

- o City of Miami Downtown as defined by NE 5 St, Biscayne Blvd, SE 2nd St, & NW 1st Ave

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 05/05/2009 1:00 PM
- o ~352.78

Sampling Personnel

- o S Lamola

Description of Catchment

Pavement Type

- o Asphalt, no curb

Typical Geometry and R/W Section

- o 50' R/W 2 lanes undivided, Asphalt concrete pavement with curb& gutters includes curb side parking. Road slopes from center line towards curb & gutter on outer edges. Pavement is more than 5 yrs old. Pavement width of swept area is 12' along outer edges of road. Total pavement width is 44', includes parking lanes.

Run-on Conditions

- o Run on from sidewalks, buildings, parking lots, intersections, overpasses, etc. Roads run off to curb & gutters.

Drainage Appurtenances in the Catchment Area

- o CBs, curb & gutters, sidewalk outfalls. See Attachments

Significant Features that may affect PM, N and P loadings

- o Containment of streets by surrounding buildings. Dust from ongoing building and nearby infra-structure construction; N - Sig. bird population (pigeons & seasonal turkey vultures), rats; homeless

urination on streets and R/W. Garbage thrown onto street or frequently at night garbage is opened and dragged out into the streets; Restaurant garbage, food and grease placed on sidewalks after hours

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description if Sweeping Equipment

- o Elgin PelicanSS 2603 Series truck # 552603

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 05/04/2009

Traffic Estimate (ADT)

- o 15327

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o Moist
- o COC provided on 05/07/09
- o



ADT : average daily traffic
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COC : chain of custody
MDC : Miami-Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - MIAMI-DADE COUNTY (MDC - SS - H - OUT - 1)

Sample ID

- o MDC – SS – H – OUT – 1

Jurisdiction

- o Miami-Dade County

Land Use Zoning

- o Highway

Location

- o NE San Simeon Way/from NE 196 Tr to NE 215 St

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 04/02/2009 6:00 AM
- o ~359.25

Sampling Personnel

- o S Lamola

Description of Catchment

Pavement Type

- o Asphalt, no curb

Typical Geometry and R/W Section

- o 80' R/W 4 lanes divided (median), Asphalt concrete pavement with curb& gutters. Road slopes from center line towards curb & gutter on outer edges. Pavement is less than 5 yrs old. Pavement width of swept area is 12' along outer edges of road. Total pavement width is 48'.

Run-on Conditions

- o Run on from sidewalks, and green areas belonging to condos along both sides of road. The southern half of sweepers route (NE 196Stto 204 La) is mostly bordered on both sides of street by closed gate condo developments with lots of green space and landscape. It appears that in some conditions run off from these areas could reach the road R/W.

Drainage Appurtenances in the Catchment Area

- o Concrete curb & gutter, vegetated swales/W, & medians.

Significant Features that may affect PM, N and P loadings

- o Curb & gutter catchment down gradient from surface staining on road. Also good catchment for fallen leaves from R/W & overhanging vegetation.

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description if Sweeping Equipment

- o 2005 Elgin Eagle Street Sweeper

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 01/22/2009

Traffic Estimate (ADT)

- o 8805

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o Moist
- o COC provided on 04/06/09
- o



ADT : average daily traffic
H : highway land use
COC : chain of custody
MDC : Miami-Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - MIAMI-DADE COUNTY (MDC - SS - H - OUT - 2)

Sample ID

- o MDC – SS – H – OUT – 2

Jurisdiction

- o Miami-Dade County

Land Use Zoning

- o Highway

Location

- o NW 22 Ave between NW 103rd St & NW 135th St

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 04/04/2009 8:00 AM
- o ~529.25

Sampling Personnel

- o S Lamola

Description of Catchment

Pavement Type

- o N/A

Typical Geometry and R/W Section

- o 100' R/W 6 lanes divided (median), Asphalt concrete pavement with curb & gutters. Road slopes towards curb & gutter on outer edges. Pavement is more than 3 yrs old. Pavement width of swept area is 12' along outer edges of road. Total pavement width is 72'. However, Northbound between NW 103 ST/ NW 111 ST it is curb only.

Run-on Conditions

- o Minor run on as curb and gutters appear elevated above adjoining properties.

Drainage Appurtenances in the Catchment Area

- o Canal, curb & gutter with CBs.

Significant Features that may affect PM, N and P loadings

- o Elevation above peripheral properties

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2005 Sterling SC8000 Street Sweeper

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 03/04/2009

Traffic Estimate (ADT)

- o 10950

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o Moist
- o COC provided on 04/06/09



ADT : average daily traffic
H : highway land use
COC : chain of custody
MDC : Miami-Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - MIAMI-DADE COUNTY (MDC - SS - H - OUT - 3)

Sample ID

- o MDC – SS – H – OUT – 3

Jurisdiction

- o Miami-Dade County

Land Use Zoning

- o Highway

Location

- o NW 46th St between 17th Ave & Okeechobee Rd

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 04/09/2009 8:00 AM
- o ~529.25

Sampling Personnel

- o S Lamola

Description of Catchment

Pavement Type

- o N/A

Typical Geometry and R/W Section

- o 50' R/W 2 lanes undivided, Asphalt concrete pavement. Road slopes from center line towards edge of pavement. Pavement is less than 5 yrs old. Total pavement width is 44', includes parking lanes.

Run-on Conditions

- o "17th Ave to 22nd Ave: Mostly single family homes. Run-off from roofs, front yards, driveways, and sidewalks. 22 Ave to 27th Avenue: Multi-family residential, commercial, and industrial area. Run-off from driveways, commercial parking lots, to street. 27 Ave to 32th Avenue: Mixed commercial, residential, and light industry is located along this section. Driveways sloping steeply towards street. 32 Ave to 37th Avenue: Mixed single family residential and heavy commercial/industrial facilities. Run-off from driveways and parking lots. SE 7thAve to Okeechobee Road: All residential properties on both sides of

street. Driveway and yard runoff to street.

Drainage Appurtenances in the Catchment Area

- o Curb & Gutter design with paved street parking along curb. Placement of sidewalk and permeable swale areas vary.

Significant Features that may affect PM, N and P loadings

- o Parking along gutter area on street. Direct run off from bordering properties. Grass clippings in road and oil staining observed on driveways and curbs

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2007 Johnston FC 80 Vacuum Sweeper

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 02/02/2009

Traffic Estimate (ADT)

- o 7480

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o Moist
- o COC provided on 04/06/09

ADT : average daily traffic

H : highway land use

COC : chain of custody

MDC : Miami-Dade County

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

SS : street sweeping

FIELD INFORMATION - MIAMI-DADE COUNTY (MDC - SS - H - OUT - 4)

Sample ID

- o MDC – SS – H – OUT – 4

Jurisdiction

- o Miami-Dade County

Land Use Zoning

- o Highway

Location

- o NW 22 Ave between NW 103rd St & NW 135th St

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 04/09/2009 8:00 AM
- o ~529.25

Sampling Personnel

- o S Lamola

Description of Catchment

Pavement Type

- o N/A

Typical Geometry and R/W Section

- o 100' R/W 6 lanes divided (median), Asphalt concrete pavement with curb & gutters. Road slopes towards curb & gutter on outer edges. Pavement is more than 3 yrs old. Pavement width of swept area is 12' along outer edges of road. Total pavement width is 72'. However, Northbound between NW 103 ST/ NW 111 ST it is curb only.

Run-on Conditions

- o Minor run on as curb and gutters appear elevated above adjoining properties.

Drainage Appurtenances in the Catchment Area

- o Canal, curb & gutter with CBs

Significant Features that may affect PM, N and P loadings

- o Elevation above peripheral properties

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2005 Sterling SC8000 Street Sweeper

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 03/04/2009

Traffic Estimate (ADT)

- o 10950

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o Moist
- o COC provided on 04/13/09



ADT : average daily traffic
H : highway land use
COC : chain of custody
MDC : Miami-Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - MIAMI-DADE COUNTY (MDC - SS - H - OUT - 6)

Sample ID

- o MDC – SS – H – OUT – 6

Jurisdiction

- o Miami-Dade County

Land Use Zoning

- o Highway

Location

- o 97TH Ave from Bird Rd to W Flagler

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 04/23/2009 11:30 AM
- o ~63.28

Sampling Personnel

- o S Lamola/Cortes

Description of Catchment

Pavement Type

- o N/A

Typical Geometry and R/W Section

- o 80' R/W 4 lanes divided (median), Asphalt concrete pavement with curb & gutters. Road slopes towards curb & gutter. Pavement is less than 5 yrs old. Total pavement width is 48'.

Run-on Conditions

- o Flagler St to 8th St: East side parallels canal with grass covered bank 18' – 20' wide. West side is residential. 8th St to Coral Way: Residential properties on both east & west sides of street. Both sides have sidewalks separated from curb by grassy swales. East and west properties run off to street. Coral Way to 28th St: Commercial shops near intersection, otherwise mostly residential. Run-off from both sides of street. 3 lanes of traffic and 1 turning lane with curb & gutter on both sides with grassy swales between curb and sidewalks. SW 28th St to Bird Road: 2 lane road with curb and gutters on both sides plus grassy swales between curb & sidewalks.

Drainage Appurtenances in the Catchment Area

- o Curb & gutter design with integral CB. Permeable swales and additional structures located at some corners along 97th Ave (exp 29 St).

Significant Features that may affect PM, N and P loadings

- o Curb and gutter

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2005 Sterling SC8000 Street Sweeper

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 04/282009

Traffic Estimate (ADT)

- o 16645

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o Moist
- o COC provided on 04/17/09



ADT : average daily traffic
H : highway land use
COC : chain of custody
MDC : Miami-Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - MIAMI-DADE COUNTY (MDC - SS - H - OUT - 8)

Sample ID

- o MDC – SS – H – OUT – 8

Jurisdiction

- o Miami-Dade County

Land Use Zoning

- o Highway

Location

- o Bird Road from 57th Avenue to SW 67th Avenue (E & W bound), SW 67th Ave from Bird road to 200' Ft north of 8th St.

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 04/28/2009 09:15 AM
- o ~181.03

Sampling Personnel

- o S Lamola/Cortes

Description of Catchment

Pavement Type

- o N/A

Typical Geometry and R/W Section

- o 100' R/W 6 lanes divided (median), Asphalt concrete pavement with curb& gutters. Road slopes towards curb & gutter. Pavement is more than 5 yrs old. Pavement width of swept area is 12' along outer edges of road. Total pavement width is 72'.

Run-on Conditions

- o Bird Road - 57th Ave to 67th Ave: Heavily traveled road with high density of commercial facilities. Run-off to streets from driveways and parking lots. Bird Road North to 25 Terrace: Mostly single family homes. Run-off from intersecting streets, yards, driveways. 25th ST to 24 St: Commercial and residential lots. 24 St to 16 St: Commercial on east side, residential on west side of street. Run-on from east side of street, and street run-off to west side. 16th to 8th St: Mixed commercial and multi-family residential properties. Section shows mixed run-on and run-off

along both sides of street. North of 8 St: Mostly SF Residential homes. Driveways & lots run off to street.

Drainage Appurtenances in the Catchment Area

- o Permeable grass swales, CBs

Significant Features that may affect PM, N and P loadings

- o Curb and gutter

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2005 Sterling SC8000 Street Sweeper

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 03/26/2009

Traffic Estimate (ADT)

- o 33785

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o Moist
- o COC provided on



ADT : average daily traffic
H : highway land use
COC : chain of custody
MDC : Miami-Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - MIAMI-DADE COUNTY (MDC - SS - H - OUT - 9)

Sample ID

- o MDC – SS – H – OUT – 9

Jurisdiction

- o Miami-Dade County

Land Use Zoning

- o Highway

Location

- o SE 8th St from Fla Turnpike to Krome Ave, Krome Ave from SE 8th St to NE 8th St, NE 8th St from Krome Ave to W Dixie Hwy (Homestead)

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 04/27/2009 09:30 AM
- o ~157.28

Sampling Personnel

- o S Lamola/Cortes

Description of Catchment

Pavement Type

- o N/A

Typical Geometry and R/W Section

- o 80' R/W 4 lanes divided (median) with turn lanes, Asphalt concrete pavement with curb & gutters. Road slopes towards curb & gutter on outer edges. Pavement is more than 3 yrs old. Pavement width of swept area is 12' along outer edges of road. Total pavement width is 48'.

Run-on Conditions

- o N/A

Drainage Appurtenances in the Catchment Area

- o Curb & gutter design with integral CB. Permeable swales and additional structures located at some corners along 97th Ave (exp 29 St).

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2001 Sterling 600 Street Sweeper

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 04/28/2009

Traffic Estimate (ADT)

- o 22030

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o Moist
- o COC provided on 05/07/09



ADT : average daily traffic
H : highway land use
COC : chain of custody
MDC : Miami-Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - MIAMI-DADE COUNTY (MDC - SS - R - OUT - 1)

Sample ID

- o MDC – SS – R – OUT – 1

Jurisdiction

- o Miami-Dade County

Land Use Zoning

- o Residential

Location

- o NE 19th Ave to W. Dixie Hwy along NE 172nd St and along NE 171st St. NE 20th Ave to W. Dixie Hwy along NE 170th and NE 169th St. NE 19th Ave to W. Dixie Hwy along NE 168th and NE 167th St. On NE 23rd Ave between NE 168th and NE 173rd St. From NE 173rd St to North Glades Rd. along NE 20th, NE 21st, and NE 22nd Avenues.

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 05/24/2010 9:18 AM
- o ~41

Sampling Personnel

- o S Lamola/M Lopez

Description of Catchment

Pavement Type

- o N/A

Typical Geometry and R/W Section

- o 100' R/W 2 lanes undivided with perpendicular asphalt concrete parking. Asphalt concrete pavement with valley gutters. Road slopes from center line towards valley gutters on outer edges. Pavement is more than 5 yrs old. Total pavement width is 24'.

Run-on Conditions

- o Run on from sidewalks, and green areas belonging to single family residences along both sides of road. The road R/W seems elevated to the adjoining properties.. Lane width 12'.

Drainage Appurtenances in the Catchment Area

- o N/A

Significant Features that may affect PM, N and P loadings

- o Swales and apartment complex parking lots catchment down gradient from surface staining on road. Possible contributors may be from litter from motorists, landscape companies working in the area using oil/fuel for machinery, some adjacent construction work

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2009 Elgin Whirlwind Model M2106

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 05/06/2010

Traffic Estimate (ADT)

- o 19841

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o Moist
- o COC provided on 05.26.2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
MDC : Miami-Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - MIAMI-DADE COUNTY (MDC - SS - R - OUT - 3)

Sample ID

- o MDC – SS – R – OUT – 3

Jurisdiction

- o Miami-Dade County

Land Use Zoning

- o Residential

Location

- o Between SW 59th Ave and SW 60th Ct along SW 10th St, SW 11th St, SW 12th ST, SW 13th St, SW 13th Terr, and SW 14th St.

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 05/20/2010 17:13 PM
- o ~28

Sampling Personnel

- o S Lamola/M Lopez

Description of Catchment

Pavement Type

- o N/A

Typical Geometry and R/W Section

- o 50' R/W 2 lanes undivided, Asphalt concrete pavement with edge of pavement and grassy swales on both sides. Road slopes from center line towards edge of pavement/swales. Pavement is more than 5 yrs old. Total pavement width is 24'.

Run-on Conditions

- o Run on from sidewalks, and green areas belonging to single family residences along both sides of road. The road R/W seems elevated to the adjoining properties. Lane width 12'.

Drainage Appurtenances in the Catchment Area

- o N/A

Significant Features that may affect PM, N and P loadings

- o Catchment down gradient from surface staining on road/ grassy swale areas. Possible contributors may be from litter from motorists, landscape companies working in the area using oil/fuel for

machinery, some adjacent construction work being done

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 1998 Elgin Broom Bear

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 05/06/2010

Traffic Estimate (ADT)

- o 21500

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o Moist
- o COC provided on 05/20/10



ADT : average daily traffic
C : commercial land use
COC : chain of custody
MDC : Miami-Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - MIAMI-DADE COUNTY (MDC - SS - R - OUT - 6)

Sample ID

- o MDC – SS – R – OUT – 6

Jurisdiction

- o Miami-Dade County

Land Use Zoning

- o Residential

Location

- o From SW 72nd St/ SW 137th Ave North to SW 8th St. Only the North Bound lane was cleaned for sample.

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 05/21/2010 10:33 AM
- o ~8

Sampling Personnel

- o S Lamola/M Lopez

Description of Catchment

Pavement Type

- o N/A

Typical Geometry and R/W Section

- o 110' R/W 4 lanes divided (median), Asphalt concrete pavement with curb& gutters on both sides. Road slopes from center line towards curb & gutter on outer edges. Pavement is less than 7 yrs old. Pavement width of swept area is 12' along outer edges of road. Total pavement width is 48'.

Run-on Conditions

Commercial shops near major intersections, otherwise mostly residential. Run-off source appears to come from roofs and driveways from both sides of street. 4 lanes of traffic and 1 turning lane with curb & gutter on both sides with median also consisting of curb and gutter throughout. Canopy cover at approximately 70% throughout area. Lane width 12'.

Drainage Appurtenances in the Catchment Area

- o N/A

Significant Features that may affect PM, N and P loadings

- o Curb & gutter catchment down gradient from surface staining on road. Also good catchment for fallen leaves from R/W & overhanging vegetation.

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2005 Elgin Eagle Sterling SC8000 Street Sweeper

Dimensions of Area Cleaned

- o N/A

Previous Cleaning Activity

- o 05/06/2010

Traffic Estimate (ADT)

- o 36,005

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o Moist
- o COC provided on 05.24.2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
MDC : Miami-Dade County
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

ORANGE COUNTY (OC)

FIELD INFORMATION - ORANGE COUNTY (OC - BMP - C - OUT - 1)

Sample identification

- o OC – BMP – C – OUT – 1

Jurisdiction

- o Orange County

Land use zoning

- o Commercial

Location

- o 3101 Woods Street. In front of Pineloch Elementary School

Co-ordinates

- o 28.510392, -81.394765

Date and time (with previous dry hours)

- o 6/9/2009 10:07 am

Sampling personnel

- o Brian Catanzaro

Description of catchment

Cover information

- o 60% pavement (1/2 road, <5 years; 1/2 school, >15 years), 40% landscape bed with mulch and poorly maintained shrubs

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 1/2 road mild slope to BMP, all of drive mild slope to BMP, no curb on either.

Run-on conditions

- o Direct run off from pavement + adjacent landscaping + turf.

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Multiple drop inlets w/ baskets, no curb, swale + pipe drainage

Significant features influencing PM, N, P load

- o Landscape bed, but not well maintained

Predominant PM, N, and P sources

- o Half vegetation, 1/2 pavement

Description of BMP

Type

- o Inlet basket

Approximate age

- o <3 years, inlet >10

Previous cleaning activity

- o 1 month prior

Condition

- o Well maintained, petroleum sock is deteriorating

Condition of PM residuals

- o Moist

Dimensions and volume

- o 4' x 3'

Description of flow to BMP

- o Direct sheet flow

Description of sampling method

- o Uniform grab samples were collected with a stainless steel spoon

Traffic estimate (ADT)

- o No traffic data is available but is estimated to be > 1000 vehicles per day

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Anthropogenic
- o COC provided on 06.10.09



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OC : Orange County
OUT : outside reclaimed water area
R/W : right of way

FIELD INFORMATION - ORANGE COUNTY (OC - BMP - C - OUT - 2)

Sample identification

- o OC – BMP – C – OUT – 2

Jurisdiction

- o Orange County

Land use zoning

- o Commercial

Location

- o 643 Oak Ridge. On the north east side of Oak Ridge at Padgett

Co-ordinates

- o 28.47279, -81.385935

Date and time (with previous dry hours)

- o 6/9/2009 10:58 am

Sampling personnel

- o Brian Catanzaro

Description of catchment

Cover information

- o 50% undeveloped property along Oak Ridge Rd and 50% impervious surface. All in fair condition.

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Asphalt street, between Oak Ridge Rd and Padgett Circle, crowned section

Run-on conditions

- o Direct run off from pavement + adjacent landscaping + turf.

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter system

Significant features influencing PM, N, P load

- o Traffic, leaf litter, debris from commercial sites along Oak Ridge Rd.

Predominant PM, N, and P sources

- o Predominant sources are traffic, leaf litter and pedestrians

Description of BMP

Type

- o One catch basin that is connected to storm drain on Oak Ridge Rd.

Approximate age

- o >5 years (insert 3 years)

Previous cleaning activity

- o 1 month prior

Condition

- o Floatables (plastic bottles, styrofoam, cups, cigarette butts, leaves)

Condition of PM residuals

- o Moist

Dimensions and volume

- o 3' x 3' x 4'

Description of flow to BMP

- o One directional inlet (primary flow from west)

Description of sampling method

- o Uniform grab samples were collected with a stainless steel spoon

Traffic estimate (ADT)

- o 29,563

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Anthropogenic
- o COC provided on 06.10.09



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OC : Orange County
OUT : outside reclaimed water area
R/W : right of way

FIELD INFORMATION - ORANGE COUNTY (OC - BMP - C - OUT - 3)

Sample identification

- o OC – BMP – C – OUT –3

Jurisdiction

- o Orange County

Land use zoning

- o Commercial

Location

- o 601 Oak Ridge. On the north side Oak Ridge in front of the Subco gas station

Co-ordinates

- o 28.472841, -81.384872

Date and time (with previous dry hours)

- o 6/9/2009 11:15 am

Sampling personnel

- o Brian Catanzaro

Description of catchment

Cover information

- o The road has a light tree canopy

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Asphalt, slightly raised centerline sloping to Type F curb and gutter system on both sides of Oak Ridge Rd.

Run-on conditions

- o Sheet flow to curb and gutter system from roadway along Oak Ridge, including parking, sidewalk and roof drains from businesses

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter system

Significant features influencing PM, N, P load

- o Traffic, leaf litter, debris

Predominant PM, N, and P sources

- o Predominant sources are traffic, leaf litter, cigarette butts, and pedestrians

Description of BMP

Type

- o One catch basin that is connected to storm drain on Oak Ridge Rd.

Approximate age

- o >5 years (insert 3 years)

Previous cleaning activity

- o One month prior

Condition

- o Floatables (plastic bottles, Styrofoam, cups, cigarette butts, leaves)

Condition of PM residuals

- o Moist

Dimensions and volume

- o 3' x 3' x 4'

Description of flow to BMP

- o Runs east/west on Oak Ridge Road. One directional entry to inlet primarily from the east.

Description of sampling method

- o Uniform grab samples were collected with a stainless steel spoon

Traffic estimate (ADT)

- o 29,563

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Anthropogenic
- o COC provided on 06.10.09



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OC : Orange County
OUT : outside reclaimed water area
R/W : right of way

FIELD INFORMATION - ORANGE COUNTY (OC - BMP - H - OUT - 1)

Sample identification

- o OC – BMP – H – OUT – 1

Jurisdiction

- o Orange County

Land use zoning

- o Highway

Location

- o 5127 S. Orange Avenue located in the parking lot

Co-ordinates

- o 28.486273, -81.371795

Date and time (with previous dry hours)

- o 6/22/2009 11:35 am

Sampling personnel

- o Brian Catanzaro

Description of catchment

Cover information

- o 80% impervious road / parking / roof,
20% landscape vegetation

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Mild slope from crown in road to Type
F gutter with inlets to piped conveyance
+ catch basins in asphalt parking lot

Run-on conditions

- o This CDS unit receives storm water
runoff from SR 527

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Gutter inlets in curb, piped system to
BMP, downstream is open ditch

Significant features influencing PM, N, P load

- o High volume of traffic on roadway

Predominant PM, N, and P sources

- o Traffic

Description of BMP

Type

- o CDS unit

Approximate age

- o <2 years

Previous cleaning activity

- o Cleaned every 6 months

Condition

- o Bolted shut

Condition of PM residuals

- o Moist

Dimensions and volume

- o 5' – 6' dia x 20'

Description of flow to BMP

- o Piped (former open ditch)

Description of sampling method

- o A stainless steel ponar dredge was used
to collect uniform grab samples.

Traffic estimate (ADT)

- o 44,525

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Anthropogenic
- o COC provided on 06.23.09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OC : Orange County
OUT : outside reclaimed water area
R/W : right of way

FIELD INFORMATION - ORANGE COUNTY (OC - BMP - H - OUT - 2)

Sample identification

- o OC – BMP – H – OUT – 2

Jurisdiction

- o Orange County

Land use zoning

- o Highway

Location

- o 1025 Oak Ridge. On the north east side of the intersection of Oak Ridge at Tamoka

Co-ordinates

- o 28.47273, -81.394239

Date and time (with previous dry hours)

- o 6/9/2009 11:35 am

Sampling personnel

- o Brian Catanzaro

Description of catchment

Cover information

- o 50% commercial establishments along Oak Ridge Rd and 50% impervious surfaces, all in fair condition

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Sheet flow to Type curb and gutter system

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter system

Significant features influencing PM, N, P load

- o Traffic, leaf litter, debris from commercial sites

Predominant PM, N, and P sources

- o Predominant sources traffic, leaf litter, and pedestrians

Description of BMP

Type

- o One catch basin that is in front of the establishment

Approximate age

- o >5 years (insert 3 years)

Previous cleaning activity

- o Catch basin inserts are cleaned monthly

Condition

- o Floatables (plastic bottles, Styrofoam, cups, cigarette butts, leaves)

Condition of PM residuals

- o Moist

Dimensions and volume

- o 3' x 3' x 4'

Description of flow to BMP

- o Runs east/west on Oak Ridge Rd., bidirectional inlet

Description of sampling method

- o Uniform grab samples were collected with a stainless steel spoon

Traffic estimate (ADT)

- o 29,563

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Anthropogenic
- o COC provided on 06.10.09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OC : Orange County
OUT : outside reclaimed water area
R/W : right of way

FIELD INFORMATION - ORANGE COUNTY (OC - BMP - H - OUT -3)

Sample identification

- o OC – BMP – H – OUT –3

Jurisdiction

- o Orange County

Land use zoning

- o Highway

Location

- o 907 Cypress Shores on the north east side of the intersection of Oak Ridge at Cypress Shores

Co-ordinates

- o 28.472741, -81.39111

Date and time (with previous dry hours)

- o 6/9/2009 11:58 am

Sampling personnel

- o Brian Catanzaro

Description of catchment

Cover information

- o The road is well maintained and has a light tree canopy

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Asphalt, slightly raised center sloping to curb and gutter, crowned system

Run-on conditions

- o This catch basin insert receives storm water runoff directly from Oak Ridge

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Type F curb and gutter system w/ frequently spaced inlets

Significant features influencing PM, N, P load

- o Traffic, leaf litter, debris from commercial businesses.

Predominant PM, N, and P sources

- o 80% sources are traffic, leaf litter, and cigarette butts, 20% vegetation

Description of BMP

Type

- o One catch basin that is in front of the trailer park

Approximate age

- o >5 years (insert 3 years)

Previous cleaning activity

- o Unknown

Condition

- o Floatables (plastic bottles, Styrofoam, cups, cigarette butts, leaves)

Condition of PM residuals

- o Moist

Dimensions and volume

- o 3' x 3' x 4'

Description of flow to BMP

- o Runs east/west on Oak Ridge Rd. (primary flow from west).

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 29,563

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Anthropogenic
- o COC provided on 06.10.09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OC : Orange County
OUT : outside reclaimed water area
R/W : right of way

FIELD INFORMATION - ORANGE COUNTY (OC - BMP - R - OUT - 1)

Sample identification

- o OC – BMP – R – OUT – 1

Jurisdiction

- o Orange County

Land use zoning

- o Residential

Location

- o 2720 Pershing. Older residential area around the north shore of Lake Conway

Co-ordinates

- o 28.498581, -81.34664

Date and time (with previous dry hours)

- o 6/23/2009 2:00 pm

Sampling personnel

- o Brian Catanzaro

Description of catchment

Cover information

- o 25% impervious/moderate age – good condition. Pavement slopes to curb/gutter; pershing drains to lateral grass stripes. 75% yard/tree canopy.

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Asphalt, slight rise at centerline to shoulder gutter

Run-on conditions

- o Sheet flow to curb/gutter from yards

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o C/G to pipe to lake

Significant features influencing PM, N, P load

- o Traffic; asphalt chipping, vegetation-leaf debris

Predominant PM, N, and P sources

- o Predominantly leaf litter. 75% vegetation, 25% traffic

Description of BMP

Type

- o CDS unit on Lake Conway

Approximate age

- o 3 years

Previous cleaning activity

- o Cleaned every six months

Condition

- o Leaf litter, partial clog in frontage

Condition of PM residuals

- o Moist

Dimensions and volume

- o In/out pipe concrete w/ curb intersection inlet. 2' x 3' x 2', shallow, 70 cubic feet

Description of flow to BMP

- o 24' cone pipe lateral at 3' depth

Description of sampling method

- o A stainless steel ponar dredge was used to collect uniform grab samples

Traffic estimate (ADT)

- o No average daily traffic is available for this area but vehicle traffic is very light

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Biogenic
- o COC provided on 06.24.09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OC : Orange County
OUT : outside reclaimed water area
R : residential land use
R/W : right of way

FIELD INFORMATION - ORANGE COUNTY (OC - BMP - R - OUT - 2)

Sample identification

- o OC – BMP – R – OUT – 2

Jurisdiction

- o Orange County

Land use zoning

- o Residential

Location

- o 4697 Silvera. On the north east corner of Silvera at Viscya

Co-ordinates

- o 28.491535, -81.38154

Date and time (with previous dry hours)

- o 6/23/2009 8:45 am

Sampling personnel

- o Brian Catanzaro

Description of catchment

Cover information

- o It has a heavy tree canopy of large oak trees

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Asphalt, slightly raised center line sloping to curb and gutter system on both sides of the street

Run-on conditions

- o Sheet flow to curb and gutter system from roadway and from yards

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Shoulder gutter system with widely spaced inlets, piped to lake

Significant features influencing PM, N, P load

- o Traffic, leaf litter

Predominant PM, N, and P sources

- o Vegetation 80%, traffic 20% and animal waste (dogs)

Description of BMP

Type

- o Second Generation Baffle Box on Lake Jessamine

Approximate age

- o 6 years (insert 3 years)

Previous cleaning activity

- o This baffle box is cleaned once a year

Condition

- o Leaves, acorns

Condition of PM residuals

- o Moist

Dimensions and volume

- o 3' x 3' x 4'

Description of flow to BMP

- o One directional drain shoulder curb

Description of sampling method

- o Uniform grab samples were collected with a stainless steel ponar dredge

Traffic estimate (ADT)

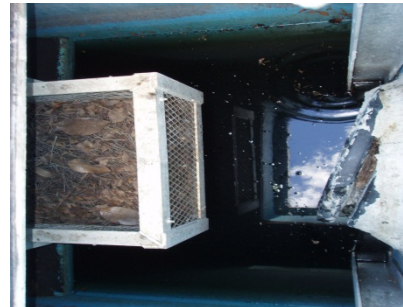
- o No average daily traffic is available for this area but vehicle traffic is very light

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Biogenic
- o COC provided on 06.24.09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OC : Orange County
OUT : outside reclaimed water area
R : residential land use
R/W : right of way

FIELD INFORMATION - ORANGE COUNTY (OC - BMP - R - OUT - 3)

Sample identification

- o OC – BMP – R – OUT – 3

Jurisdiction

- o Orange County

Land use zoning

- o Residential

Location

- o 4697 Silvera. On the north east corner of Silvera at Viscya

Co-ordinates

- o 28.491526, -81.381592

Date and time (with previous dry hours)

- o 6/9/2009 10:27 am

Sampling personnel

- o Brian Catanzaro

Description of catchment

Cover information

- o It has a heavy tree canopy of large oak trees

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Asphalt, slightly raised center line sloping to curb and gutter system.

Run-on conditions

- o Sheet flow to curb and gutter system from yards

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Shoulder gutter system with widely spaced inlets to lake

Significant features influencing PM, N, P load

- o Traffic, leaves, and litter

Predominant PM, N, and P sources

- o Vegetation 80%, traffic 20% and animal waste (dogs)

Description of BMP

Type

- o Curb Inlet Basket on Lake Jessamine

Approximate age

- o 1 year

Previous cleaning activity

- o Catch basin inserts are cleaned monthly

Condition

- o Leaves, acorns

Condition of PM residuals

- o Moist

Dimensions and volume

- o Catch basin, 3' x 3' x 4'

Description of flow to BMP

- o One directional upstream of OC-BMP-R-OUT-2

Description of sampling method

- o Uniform grab samples were collected with a stainless steel spoon

Traffic estimate (ADT)

- o No average daily traffic is available for this area but vehicle traffic is very light

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Biogenic
- o COC provided on 06.10.09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OC : Orange County
OUT : outside reclaimed water area
R : residential land use
R/W : right of way

FIELD INFORMATION - ORANGE COUNTY (OC - CB - C - OUT - 1)

Sample identification

- o OC – CB – C – OUT – 1

Jurisdiction

- o Orange County

Land use zoning

- o Commercial

Location

- o 12270 Lake Underhill. On the north west side of the street on Lake Underhill at Alafaya

Co-ordinates

- o 28.546987, -81.204098

Date and time (with previous dry hours)

- o 6/2/2009 10:57 am

Sampling personnel

- o Brian Catanzaro

Description of catchment

Cover information

- o Interval slop to curb, < 5% oak canopy and > 95% impervious moderate condition asphalt

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o 6-lane asphalt crown pitch to outer shoulder

Run-on conditions

- o Sheet flow roadway – inverted slope

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Type F curb and gutter

Significant features influencing PM, N, P load

- o Traffic sediment, leaf litter, floatables

Predominant PM, N, and P sources

- o > 70% Anthropogenic (traffic debris) and < 20% Biogenic (leaf litter)

Description of catch basin

Type

- o Type F curb and gutter system, concrete formed

Approximate age

- o 9 years

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o 3 x 3 x 3

Description of flow to catch basin

- o Sheet and lateral flow from up the street

Description of sampling method

- o Uniform grab samples were collected with a stainless steel ponar dredge

Traffic estimate (ADT)

- o 29,423

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 06.02.09



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
N : nitrogen
OC : Orange County
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - ORANGE COUNTY (OC - CB - C - OUT - 2)

Sample identification

- o OC – CB – C – OUT – 2

Jurisdiction

- o Orange County

Land use zoning

- o Commercial

Location

- o 4970 Old Winter Garden. On the south east side of Old Winter Garden at Pine Hills

Co-ordinates

- o 28.542284, -81.44649

Date and time (with previous dry hours)

- o 6/1/2009 10:45 am

Sampling personnel

- o Brian Catanzaro

Description of catchment

Cover information

- o Little to no tree coverage and > 90% impervious

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Asphalt, slightly raised centerline sloping to curb and gutter system

Run-on conditions

- o Sheet flow to curb and gutter along road, includes concrete aprons to commercial tracts and sidewalks

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter to 15" RCP

Significant features influencing PM, N, P load

- o Traffic, sediment from poorly maintained parking, and work yards

Predominant PM, N, and P sources

- o Anthropogenic (traffic debris)

Description of catch basin

Type

- o Curb inlet and structure with 18" RCP inflow from North and 18" RCP outflow

Approximate age

- o 15 years

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o Cylindrical 4 ft (d) x 4 ft (w)

Description of flow to catch basin

- o Sheet flow from surrounding impervious surfaces

Description of sampling method

- o Uniform grab samples were collected with a stainless steel ponar dredge

Traffic estimate (ADT)

- o 26,062

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 06.02.09



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
N : nitrogen
OC : Orange County
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - ORANGE COUNTY (OC - CB - C - OUT - 3)

Sample identification

- o OC – CB – C – OUT – 3

Jurisdiction

- o Orange County

Land use zoning

- o Commercial

Location

- o 6025 Oak Shadow. On the north west corner of Conroy Windermere and Oak shadow

Co-ordinates

- o 28.493864, -81.463076

Date and time (with previous dry hours)

- o 6/1/2009 11:09 am

Sampling personnel

- o Brian Catanzaro

Description of catchment

Cover information

- o 100% impervious

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Asphalt, slightly raised centerline with moderate slope

Run-on conditions

- o Sheet flow from road

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Type F curb and gutter system into 15" RCP

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Anthropogenic (traffic and litter)

Description of catch basin

Type

- o Inlet structure

Approximate age

- o 5-10 years

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o 3 ft (d) x 3.5 ft (w)

Description of flow to catch basin

- o Sheet flow from surrounding impervious surfaces

Description of sampling method

- o Uniform grab samples were collected with a stainless steel spoon

Traffic estimate (ADT)

- o 36,360

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 06.02.09



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
N : nitrogen
OC : Orange County
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - ORANGE COUNTY (OC - CB - H - OUT - 1)

Sample identification

- o OC – CB – H – OUT – 1

Jurisdiction

- o Orange County

Land use zoning

- o Highway

Location

- o 9423 Orange Avenue; on the east side of the street in front of National Crane Services

Co-ordinates

- o 28.429996, -81.369323

Date and time (with previous dry hours)

- o 6/1/2009 1:10 pm

Sampling personnel

- o Brian Catanzaro

Description of catchment

Cover information

- o 50% tree cover and 50% roadway

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o 5-lane crowned mild slope to gutter

Run-on conditions

- o 80% from road and 20% adjacent parking and building

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Type F curb and gutter system

Significant features influencing PM, N, P load

- o Heavy truck traffic

Predominant PM, N, and P sources

- o 80% Anthropogenic (road) and 20% Biogenic (trees)

Description of catch basin

Type

- o Type F gutter with inlet

Approximate age

- o 10 years

Previous cleaning activity

- o N/A

Condition

- o Good

Condition of PM residuals

- o Dry

Dimensions and volume

- o 4 ft (dia) x 4 ft (deep)

Description of flow to catch basin

- o Direct into gutter

Description of sampling method

- o Uniform grab samples were collected with a stainless steel spoon

Traffic estimate (ADT)

- o 34,773

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 06.02.09



ADT : average daily traffic

CB : catch basin

COC : chain of custody

H : highway land use

N : nitrogen

OC : Orange County

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

FIELD INFORMATION - ORANGE COUNTY (OC - CB - H - OUT - 2)

Sample identification

- o OC – CB – H – OUT – 2

Jurisdiction

- o Orange County

Land use zoning

- o Highway

Location

- o Curry Ford at SR 417 in the median on the north east side of the intersection

Co-ordinates

- o 28.510224, -81.246718

Date and time (with previous dry hours)

- o 6/2/2009 11:40 am

Sampling personnel

- o Brian Catanzaro

Description of catchment

Cover information

- o Light tree canopy

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Concrete roadway with crown to Type F gutter

Run-on conditions

- o Sheet flow across roadway to gutter

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Type F curb and gutter system

Significant features influencing PM, N, P load

- o Traffic and human litter

Predominant PM, N, and P sources

- o Anthropogenic (traffic)

Description of catch basin

Type

- o Type F gutter with inlet, manhole

Approximate age

- o < 5 years

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Dry

Dimensions and volume

- o 36" manhole : 3 x 3 x 3

Description of flow to catch basin

- o Direct runoff from roadway

Description of sampling method

- o Uniform grab samples were collected with a stainless steel spoon

Traffic estimate (ADT)

- o 28,011

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 06.02.09



ADT : average daily traffic
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COC : chain of custody
H : highway land use
N : nitrogen
OC : Orange County
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - ORANGE COUNTY (OC - CB - H - OUT - 3)

Sample identification

- o OC - CB - H - OUT - 3

Jurisdiction

- o Orange County

Land use zoning

- o Highway

Location

- o 4002 John Young Parkway on the south west side of the intersection with 40th street

Co-ordinates

- o 28.502094, -81.417655

Date and time (with previous dry hours)

- o 6/1/2009 11:40 am

Sampling personnel

- o Brian Catanzaro

Description of catchment

Cover information

- o Mostly impervious and <10% vegetative canopy of live oak

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Asphalt with raised and divided medium sloping to curb and gutter

Run-on conditions

- o Sheet flow to curb and gutter

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Type F curb and gutter system to 24" RCP

Significant features influencing PM, N, P load

- o Heavy sediment and deposition from commercial lot

Predominant PM, N, and P sources

- o Anthropogenic (traffic)

Description of catch basin

Type

- o Curb inlet structure

Approximate age

- o < 10 years

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o 4.5 ft (d) x 3.5 ft (w)

Description of flow to catch basin

- o Direct runoff from roadway

Description of sampling method

- o Uniform grab samples were collected with a stainless steel spoon

Traffic estimate (ADT)

- o 43,395

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 06.02.09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
N : nitrogen
OC : Orange County
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - ORANGE COUNTY (OC - CB - R - OUT - 1)

Sample identification

- o OC – CB – R – OUT – 1

Jurisdiction

- o Orange County

Land use zoning

- o Residential roadway drainage

Location

- o 1289 Old Mill. At the north west corner of Old Mill and Vaughn

Co-ordinates

- o 28.490785, -81.361839

Date and time (with previous dry hours)

- o 6/1/2009 12:44 pm

Sampling personnel

- o Brian Catanzaro

Description of catchment

Cover information

- o 15-25% tree cover, fair asphalt condition, and slope to shoulder inverts

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Asphalt, minimal centerline raised to intersection gutter inlet

Run-on conditions

- o Drains Vaughn / Old Mill Yard sheet flow to street

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Shoulder gutter to 18" concrete inlet

Significant features influencing PM, N, P load

- o Traffic sediment, leaf litter, floatables

Predominant PM, N, and P sources

- o Biogenic : vegetation

Description of catch basin

Type

- o Single pipe

Approximate age

- o > 15 years

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o 3 x 3 x 2

Description of flow to catch basin

- o Sheet flow to gutter

Description of sampling method

- o Uniform grab samples were collected with a stainless steel spoon

Traffic estimate (ADT)

- o No average daily traffic is available for this area but vehicle traffic is very light

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 06.02.09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OC : Orange County
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - ORANGE COUNTY (OC - CB - R - OUT - 2)

Sample identification

- o OC – CB – R – OUT – 2

Jurisdiction

- o Orange County

Land use zoning

- o Residential, uncleared property, and commercial activity

Location

- o 5633 Makoma. On the south east corner of Lake Jessamine and Makoma

Co-ordinates

- o 28.479262, -81.395242

Date and time (with previous dry hours)

- o 6/1/2009 12:02 pm

Sampling personnel

- o Brian Catanzaro

Description of catchment

Cover information

- o ~25% oak and palm tree cover, 50% fair condition asphalt, and 25% grass

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Asphalt street with gravel on road

Run-on conditions

- o Sheet flow from road and grass on one side of road

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Type F curb and gutter system to two catchments

Significant features influencing PM, N, P load

- o Traffic sediment and leaf litter

Predominant PM, N, and P sources

- o Traffic, road debris, leaf litter and people

Description of catch basin

Type

- o Two connected catch basins

Approximate age

- o < 5 years

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o 4 x 4 x 1

Description of flow to catch basin

- o Direct runoff from road

Description of sampling method

- o Uniform grab samples were collected with a stainless steel spoon

Traffic estimate (ADT)

- o No average daily traffic is available for this area but vehicle traffic is very light

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 06.02.09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OC : Orange County
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - ORANGE COUNTY (OC - CB - R - OUT - 3)

Sample identification

- o OC - CB - R - OUT - 3

Jurisdiction

- o Orange County

Land use zoning

- o Residential

Location

- o 4319 Forrestral on the east corner of Forrestral at Ilene

Co-ordinates

- o 28.496906, -81.378721

Date and time (with previous dry hours)

- o 6/1/2009 12:26 pm

Sampling personnel

- o Brian Catanzaro

Description of catchment

Cover information

- o 30% trees, 40% lawns, 30% pavement, and mild slopes

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Mild crown to shoulder gutter and infrequent inlets to pipes to lake

Run-on conditions

- o Yards slope to gutter, natural grades

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Shoulder gutter, inlets

Significant features influencing PM, N, P load

- o Residential traffic

Predominant PM, N, and P sources

- o 70% Biogenic and 30% Anthropogenic

Description of catch basin

Type

- o Gutter inlet

Approximate age

- o > 30 years

Previous cleaning activity

- o Cleaned as needed

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o 4 ft (diameter) x 5 ft (deep)

Description of flow to catch basin

- o Sheet flow to gutter

Description of sampling method

- o Uniform grab samples were collected with a stainless steel spoon

Traffic estimate (ADT)

- o 1,147

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 06.02.09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OC : Orange County
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - ORANGE COUNTY (OC - SS - C - OUT - 1)

Sample ID

- o OC – SS – C – OUT – 1

Jurisdiction

- o Orange County

Land Use Zoning

- o Commercial

Location

- o Lake Underhill; from Semoran to Alafaya

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 6/2/2009 9:05 am

Sampling Personnel

- o Brian Catanzaro

Description of Catchment

Pavement Type

- o Asphalt

Typical Geometry and R/W Section

- o Crowned to Type F, curb island: 4-6 lane, Alafaya to Rouse, Chickasaw intersection, Semoran intersection, 30% piped to ponds. Grass swale: 2-4 lane ditch, Rouse to east of Chickasaw, 70% swale to ponds

Run-on Conditions

- o Lateral from side streets, mainly runoff from roadway only

Drainage Appurtenances in the Catchment Area

- o Curb inlet standard

Significant Features that may affect PM, N and P loadings

- o Heavy car traffic

Predominant Source

- o Traffic/ human litter

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2008 Elgin Eagle mechanical street sweeper

Dimensions of Area Cleaned

- o 5.18 miles

Previous Cleaning Activity

- o Swept monthly

Traffic Estimate (ADT)

- o 21,229

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o N/A
- o COC provided on 06.02.09



ADT : average daily traffic
C : commercial land use
COC : chain of custody
N : nitrogen
OC : Orange County
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - ORANGE COUNTY (OC - SS - C - OUT - 2)

Sample ID

- o OC – SS – C – OUT – 2

Jurisdiction

- o Orange County

Land Use Zoning

- o Commercial

Location

- o Old Winter Garden; from Powers to Texas

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 6/9/2009 9:46 am

Sampling Personnel

- o Brain Catanzaro

Description of Catchment

Pavement Type

- o Asphalt, medium age (5-10 years)

Typical Geometry and R/W Section

- o Minimal crown sloping to Type F, 5-lane divided, minimal grade

Run-on Conditions

- o Some runoff to side streets

Drainage Appurtenances in the Catchment Area

- o Type F curb with curb inlets

Significant Features that may affect PM, N and P loadings

- o None observed, traffic based

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2008 Elgin Eagle mechanical street sweeper

Dimensions of Area Cleaned

- o 3.73 miles

Previous Cleaning Activity

- o Swept monthly

Traffic Estimate (ADT)

- o 26,062

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o N/A
- o COC provided on 06.10.09



ADT : average daily traffic
C : commercial land use
COC : chain of custody
N : nitrogen
OC : Orange County
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - ORANGE COUNTY (OC - SS - C - OUT - 3)

Sample ID

- o OC – SS – C – OUT – 3

Jurisdiction

- o Orange County

Land Use Zoning

- o Commercial

Location

- o Conroy Windermere; from Kirkman to Apopka Vineland

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 6/9/2009 9:15 am

Sampling Personnel

- o Brian Catanzaro

Description of Catchment

Pavement Type

- o Asphalt, medium age (5-10 years)

Typical Geometry and R/W Section

- o 4-6 lane divided road, mostly minimal grade, with exception at FL Turnpike over pass. Road is divided by vegetated median of varying width, lanes have minimal slope to curb and gutter

Run-on Conditions

- o Some lateral street runoff

Drainage Appurtenances in the Catchment Area

- o Type F curbs, inlets, piped to ponds

Significant Features that may affect PM, N and P loadings

- o Half of road has 50% canopy cover of predominantly live oak

Predominant Source

- o Corridor comprised of > 50% canopy cover

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2008 Elgin Eagle mechanical street sweeper

Dimensions of Area Cleaned

- o 3.01 miles

Previous Cleaning Activity

- o Swept monthly

Traffic Estimate (ADT)

- o 32,094

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o N/A
- o COC provided on 06.10.09



ADT : average daily traffic
C : commercial land use
COC : chain of custody
N : nitrogen
OC : Orange County
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - ORANGE COUNTY (OC - SS - H - OUT - 1)

Sample ID

- o OC – SS – H – OUT – 1

Jurisdiction

- o Orange County

Land Use Zoning

- o Highway

Location

- o SR 527 Orange Ave; from Sand Lake to Taft Vineland

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 6/3/2009 10:09 am

Sampling Personnel

- o Brian Catanzaro

Description of Catchment

Pavement Type

- o Asphalt, medium age (5-10 years), generally good shape

Typical Geometry and R/W Section

- o 60% gutter, 5-7 lanes (Type F), 40% to swale 4-lanes, and medium slope from crown to edge of pavement

Run-on Conditions

- o Adjacent commercial property flows to roadway

Drainage Appurtenances in the Catchment Area

- o 40% with swales, drop inlets to ponds and 60% with gutter, curb inlets to ponds

Significant Features that may affect PM, N and P loadings

- o 80% high volume traffic and 20% adjacent commercial high truck volume

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2008 Elgin Eagle mechanical street sweeper

Dimensions of Area Cleaned

- o 2.11 miles

Previous Cleaning Activity

- o Swept monthly

Traffic Estimate (ADT)

- o 30,697

Approx. Weight of Recovered Sample

- o 189.9 pounds

Description of Sample and COC

- o N/A
- o COC provided on 06.03.09



ADT : average daily traffic
COC : chain of custody
H : highway land use
N : nitrogen
OC : Orange County
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - ORANGE COUNTY (OC - SS - H - OUT - 2)

Sample ID

- o OC – SS – H – OUT – 2

Jurisdiction

- o Orange County

Land Use Zoning

- o Highway

Location

- o SR 552 Curry Ford; from Goldenrod to Alafaya

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 6/2/2009 10:14 am

Sampling Personnel

- o Brian Catanzaro

Description of Catchment

Pavement Type

- o <10 years

Typical Geometry and R/W Section

- o 2-4 lane roadway, minimal crown and grade, some curb inlet on 2-lane, all 4-lane have standard curb and gutter outer shoulder, 6-lane section with turn lanes, and Crowned to gutter or swale

Run-on Conditions

- o Some arterial roadway drain on to Curry Ford with majority handled by installed curb and gutter

Drainage Appurtenances in the Catchment Area

- o Western end from Goldenrod Rd. to Dean Rd, 60% of total: Type F. Curb type-standard piped to ponds. Eastern end from Dean Rd. to Alafaya Trail, 40% of total: grass swale, grated inlets, swale to pond treatment

Significant Features that may affect PM, N and P loadings

- o All traffic, mostly cars

Predominant Source

- o Traffic, leaf litter, sediment washed from exposed shoulders, human litter, yard waste, and floatables

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2008 Elgin Eagle mechanical street sweeper

Dimensions of Area Cleaned

- o 6.71 miles

Previous Cleaning Activity

- o Swept monthly

Traffic Estimate (ADT)

- o 29,190

Approx. Weight of Recovered Sample

- o 603.9 pounds

Description of Sample and COC

- o N/A
- o COC provided on 06.02.09



ADT : average daily traffic
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H : highway land use
N : nitrogen
OC : Orange County
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - ORANGE COUNTY (OC - SS - H - OUT - 3)

Sample ID

- o OC – SS – H – OUT – 3

Jurisdiction

- o Orange County

Land Use Zoning

- o Highway

Location

- o SR 423 John Young; from Sand Lake to I-4

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 6/9/2009 8:43 am

Sampling Personnel

- o Brian Catanzaro

Description of Catchment

Pavement Type

- o New asphalt

Typical Geometry and R/W Section

- o 6-lane road divided with varying median widths, minimal slopes, except moderate slope at FL Turnpike overpass. Minimal crown, road slopes to either curb and gutter or roadside swales

Run-on Conditions

- o Lateral street runoff

Drainage Appurtenances in the Catchment Area

- o Curb and gutter with curb inlets Type F of approximately 95% of length. Road shoulder with roadside swales and drop bottom inlets for <5% of length

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2008 Elgin Eagle mechanical street sweeper

Dimensions of Area Cleaned

- o 4.18 miles

Previous Cleaning Activity

- o Swept monthly

Traffic Estimate (ADT)

- o 43,395

Approx. Weight of Recovered Sample

- o 376.2 pounds

Description of Sample and COC

- o N/A
- o COC provided on 06.03.09



ADT : average daily traffic
COC : chain of custody
H : highway land use
N : nitrogen
OC : Orange County
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - ORANGE COUNTY (OC - SS - R - OUT - 1)

Sample ID

- o OC – SS – R – OUT – 1

Jurisdiction

- o Orange County

Land Use Zoning

- o Residential

Location

- o This is an older residential area around the north east shore of Lake Conway

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 6/3/2009 8:43 am

Sampling Personnel

- o Brian Catanzaro

Description of Catchment

Pavement Type

- o 5-10 year asphalt

Typical Geometry and R/W Section

- o Minimal to flat surface pavement, minimal crown. 80% shoulder gutter and 20% no gutter

Run-on Conditions

- o Lateral arterial and street to street and sheet flow from yards

Drainage Appurtenances in the Catchment Area

- o None to corner intersection curb. Far spacing of inlets and Piped to lake

Significant Features that may affect PM, N and P loadings

- o Tree canopy and yard maintenance

Predominant Source

- o Vegetation > 75%, minimal floatables

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2008 Elgin Eagle mechanical street sweeper

Dimensions of Area Cleaned

- o 3.093 miles

Previous Cleaning Activity

- o Area is swept weekly

Traffic Estimate (ADT)

- o No average daily traffic is available for this area but vehicle traffic is very light

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o N/A
- o COC provided on 06.03.09



ADT : average daily traffic
COC : chain of custody
N : nitrogen
OC : Orange County
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping

FIELD INFORMATION - ORANGE COUNTY (OC - SS - R - OUT - 2)

Sample ID

- o OC – SS – R – OUT – 2

Jurisdiction

- o Orange County

Land Use Zoning

- o Residential

Location

- o Older residential area around the east shore of Lake Jessamine

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 6/3/2009 9:20 am

Sampling Personnel

- o Brian Catanzaro

Description of Catchment

Pavement Type

- o 5-10 year asphalt, starting to break down in some areas

Typical Geometry and R/W Section

- o Minimal graded, minimal crown, and shoulder gutter

Run-on Conditions

- o Lateral street runoff, sheet flow from yards

Drainage Appurtenances in the Catchment Area

- o Curb inlets, to pipe system to lake

Significant Features that may affect PM, N and P loadings

- o Well maintained yards, tree cover, minimal traffic

Predominant Source

- o 20% traffic and 80% trees and yards

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2008 Elgin Eagle mechanical street sweeper

Dimensions of Area Cleaned

- o 3.396 miles

Previous Cleaning Activity

- o Area is swept weekly

Traffic Estimate (ADT)

- o No average daily traffic is available for this area but vehicle traffic is very light

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o N/A
- o COC provided on 06.03.09



ADT : average daily traffic
COC : chain of custody
N : nitrogen
OC : Orange County
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping

FIELD INFORMATION - ORANGE COUNTY (OC - SS - R - OUT - 3)

Sample ID

- o OC – SS – R – OUT – 3

Jurisdiction

- o Orange County

Land Use Zoning

- o Residential

Location

- o Older residential area around the south east shore of Lake Holden

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 6/3/2009 8:15 am

Sampling Personnel

- o Brian Catanzaro

Description of Catchment

Pavement Type

- o 5-10 year asphalt, minor cracking

Typical Geometry and R/W Section

- o Mild slopes, 2-lane residential street, crowned shoulder gutter, sidewalks, and yards sloping to street

Run-on Conditions

- o Yards, drives sloping to street. 30% tree cover, mostly live laurel oak

Drainage Appurtenances in the Catchment Area

- o Shoulder gutter with infrequent curb inlets

Significant Features that may affect PM, N and P loadings

- o Not a high traffic area and runoff from yards

Predominant Source

- o 70% vegetation, grass and 30% streets

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2008 Elgin Eagle mechanical street sweeper

Dimensions of Area Cleaned

- o 3.51 miles

Previous Cleaning Activity

- o Area is swept weekly

Traffic Estimate (ADT)

- o No average daily traffic is available for this area but vehicle traffic is very light

Approx. Weight of Recovered Sample

- o N/A

Description of Sample and COC

- o N/A
- o COC provided on 06.03.09



ADT : average daily traffic
COC : chain of custody
N : nitrogen
OC : Orange County
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping

ORLANDO

(MCO)

FIELD INFORMATION - ORLANDO (MCO - BMP - C - OUT - 1)

Sample identification

- o MCO – BMP – C – OUT – 1

Jurisdiction

- o Orlando

Land use zoning

- o Commercial

Location

- o Inlet basket at SE corner of Rio Grande Ave and W Church Street

Co-ordinates

- o 'X' Coordinate = 527307.269
- o 'Y' Coordinate = 1529293.367

Date and time (with previous dry hours)

- o 03/31/2009 11:09 AM
- o pdh ~ 25

Sampling personnel

- o Darlene Crosby

Description of catchment

Cover information

- o Minimal canopy coverage; some oak, pine and palm trees

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Two lane road with turn lanes; asphalt

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o Wabasso

Drainage appurtenances in the area

- o Standard 6" Curb and Gutter

Significant features influencing PM, N, P load

- o Horse barn/stables, fertilization/landscaping of Lake Lorna Doone City Park, littering issues

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Inlet basket

Approximate age

- o ~3 years

Previous cleaning activity

- o Within 30 day period

Condition

- o Functioning as Designed

Condition of PM residuals

- o Dry to Moist

Dimensions and volume

- o Basket Dimensions: Top: 16", Bottom: 15", Depth: 14", basket volume: 1.53 ft³

Description of flow to BMP

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 8000

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Mixed
- o COC provided on 04.02.09



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO - BMP - C - OUT - 2)

Sample identification

- o MCO – BMP – C – OUT – 2

Jurisdiction

- o Orlando

Land use zoning

- o Commercial

Location

- o Inlet basket on SW corner of Lake Highland Dr and Highland Ave

Co-ordinates

- o 'X' Coordinate = 536178.41
- o 'Y' Coordinate = 1536588.107

Date and time (with previous dry hours)

- o 03/31/2009 2:15 PM
- o pdh ~ 26

Sampling personnel

- o Darlene Crosby

Description of catchment

Cover information

- o Minimal canopy coverage consisting of a few oak and palm trees

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Two lane road with turn lanes; asphalt

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Vertical curb

Significant features influencing PM, N, P load

- o Light commercial area, railroad track, entrance/exit to lot filled with fine sand and gravel (tracking potential), lawn fertilizer

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Inlet basket

Approximate age

- o ~4 years

Previous cleaning activity

- o Within 30 day period

Condition

- o Functioning as Designed

Condition of PM residuals

- o Moist

Dimensions and volume

- o Basket Dimensions: Top: 16", Bottom: 13.5", Depth: 23.5", basket volume: 2.33 ft³

Description of flow to BMP

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 7440

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Mixed
- o COC provided on 04.02.09



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
MCO : city of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO - BMP - C - OUT - 3)

Sample identification

- o MCO – BMP – C – OUT – 3

Jurisdiction

- o Orlando

Land use zoning

- o Commercial

Location

- o Inlet basket on N side of Rollins St at John Lewkowicz Lane

Co-ordinates

- o 'X' Coordinate = 538123.243
- o 'Y' Coordinate = 1541501.272

Date and time (with previous dry hours)

- o 03/31/2009 1:48 PM
- o pdh ~ 25

Sampling personnel

- o Darlene Crosby

Description of catchment

Cover information

- o Minimal canopy coverage consisting of some oak and cypress trees

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Two lane road; asphalt

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Standard 6" curb and gutter

Significant features influencing PM, N, P load

- o Lawn Fertilizer/Landscaping practices, construction activities (ongoing for ~2 years)

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Inlet basket

Approximate age

- o ~2 years

Previous cleaning activity

- o Within 30 day period

Condition

- o Functioning as Designed

Condition of PM residuals

- o Saturated

Dimensions and volume

- o Basket Dimensions: Top: 19", Bottom: 17", Depth: 23", basket volume: 3.39 ft³

Description of flow to BMP

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 3000-4000

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Mixed
- o COC provided on 04.02.09



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
MCO : city of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO - BMP - H - OUT - 1)

Sample identification

- o MCO – BMP – H – OUT – 1

Jurisdiction

- o Orlando

Land use zoning

- o Commercial

Location

- o Storm Flo™ screen on E side of N Mills Ave at E Princeton St

Co-ordinates

- o 'X' = 539238.791 'Y' = 1539952.011

Date and time (with previous dry hours)

- o 07/21/2010 1:22 PM
- o pdh ~ 114

Sampling personnel

- o Melissa Obrien

Description of catchment

Cover information

- o Minimal to moderate canopy coverage consisting of bald and pond cypress, Live Oak, Crepe Myrtle, and Southern Magnolia

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Four Lane Highway with Bi-Directional Lane and Parking Lanes; Bridge Deck; Concrete

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curbed streets

Significant features influencing PM, N, P load

- o Ongoing road construction project and businesses, i.e. auto repair, car washes

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Storm Flo™

Approximate age

- o ~1 years

Previous cleaning activity

- o Within 30 day period

Condition

- o Functioning as Designed

Condition of PM residuals

- o Moist to Saturated

Dimensions and volume

- o Length: 120", Width: 24", volume: 31.42 ft³

Description of flow to BMP

- o Flow rating for each section of 5-ft length of screen range from 3 to 12 cfs when 50% full

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 56624

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Mixed
- o COC provided on 07.22.10



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
MCO : city of Orlando
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO - BMP - H - OUT - 2)

Sample identification

- o MCO – BMP – H – OUT – 2

Jurisdiction

- o Orlando

Land use zoning

- o Commercial

Location

- o Storm Flo™ screen on the W side of N Mills Avenue at E Princeton Street

Co-ordinates

- o 'X' = 539127.897, 'Y' = 1540047.28

Date and time (with previous dry hours)

- o 07/21/2010 1:57 PM
- o pdh ~ 115

Sampling personnel

- o Melissa Obrien

Description of catchment

Cover information

- o Low to moderate canopy coverage consisting of Bald and Pond Cypress, Live Oak, Crepe Myrtle, and Southern Magnolia

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Four Lane Highway with Bi-Directional Lane and Parking Lanes; Bridge Deck; Concrete

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Standard 6" curb and gutter

Significant features influencing PM, N, P load

- o Ongoing road construction project, businesses and vacant, cleared lot/parcel (mostly stabilized by weeds)

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Storm Flo™

Approximate age

- o ~1 years

Previous cleaning activity

- o Within 30 day period

Condition

- o Functioning as Designed

Condition of PM residuals

- o Dry leaves, saturated sediment

Dimensions and volume

- o Length: 180", Width: 36", volume: 106.03 ft³

Description of flow to BMP

- o Flow rating for each section of 5-ft length of screen range from 3 to 12 cfs when 50%

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 56624

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Mixed
- o COC provided on 07.22.2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
MCO : city of Orlando
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO - BMP - H - OUT - 3)

Sample identification

- o MCO – BMP – H – OUT – 3

Jurisdiction

- o Orlando

Land use zoning

- o Commercial

Location

- o Continuous Deflection Separator (CDS™) Unit on Lake Holden Terrace just S of W Michigan Street

Co-ordinates

- o 'X' = 533153.27, 'Y' = 1519053.91

Date and time (with previous dry hours)

- o 07/23/2010 11:14 AM
- o pdh ~ 57

Sampling personnel

- o N/A

Description of catchment

Cover information

- o Minimal canopy coverage consisting of cypress trees and some ornamental landscaping in front of businesses

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Four Lane road with median or bi-directional lane; asphalt

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Standard 6" curb and gutter

Significant features influencing PM, N, P load

- o Grass clippings; lawn fertilizer/landscaping practices; railroad track; commercial activities

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Continuous Deflection Separator (CDS)

Approximate age

- o ~5 years

Previous cleaning activity

- o Within 30 day period

Condition

- o Functioning as Designed

Condition of PM residuals

- o Saturated/submerged

Dimensions and volume

- o Length: 68", Depth: 492", volume: 1034.02 ft³

Description of flow to BMP

- o This CDS™ unit uses a vortex action created by the hydraulic energy of incoming flow to separate trash/debris and sediment from the flow.

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 80937

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Mixed
- o COC provided on 07.22.2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
MCO : city of Orlando
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO - BMP - R - OUT - 1)

Sample identification

- o MCO – BMP – R – OUT – 1

Jurisdiction

- o Orlando

Land use zoning

- o Residential

Location

- o Inlet basket at 2904 N Westmoreland Dr

Co-ordinates

- o 'X' Coordinate = 530207.245
- o 'Y' Coordinate = 1542828.065

Date and time (with previous dry hours)

- o 03/31/2090 12:19 PM
- o pdh ~ 24

Sampling personnel

- o Darlene Crosby

Description of catchment

Cover information

- o Moderate canopy coverage;
predominately oak trees

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Two lane road; asphalt

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Vertical curb

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Inlet basket

Approximate age

- o ~6 years

Previous cleaning activity

- o Within 30 day period

Condition

- o Functioning as Designed

Condition of PM residuals

- o Moist

Dimensions and volume

- o Top: 22", Bottom: 18", Depth: 23.5"
volume: 4.29 ft³

Description of flow to BMP

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 463

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Mixed
- o COC provided on 04.02.09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
MCO : city of Orlando
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R : residential land use
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO - BMP - R - OUT - 2)

Sample identification

- o MCO – BMP – R – OUT – 2

Jurisdiction

- o Orlando

Land use zoning

- o Residential

Location

- o Inlet basket at 2904 Lancaster Drive

Co-ordinates

- o 'X' Coordinate = 539043.459
- o 'Y' Coordinate = 1524088.684

Date and time (with previous dry hours)

- o 04/01/2010 10:31 AM
- o pdh ~ 18

Sampling personnel

- o Darlene Crosby

Description of catchment

Cover information

- o Heavy canopy coverage predominately consisting of oak trees (some cypress trees)

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Two lane road; brick

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Vertical curb

Significant features influencing PM, N, P load

- o Brick street, heavy canopy coverage, city park.

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Inlet basket

Approximate age

- o ~3 years

Previous cleaning activity

- o Within 30 day period

Condition

- o Functioning as Designed

Condition of PM residuals

- o Moist

Dimensions and volume

- o Top: 16", Bottom: 14", Depth: 18"
volume: 1.84 ft³

Description of flow to BMP

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 300

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Mixed
- o COC provided on 04.02.09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
MCO : city of Orlando
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R : residential land use
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO - BMP - R - OUT - 3)

Sample identification

- o MCO – BMP – R – OUT – 3

Jurisdiction

- o Orlando

Land use zoning

- o Residential

Location

- o Inlet basket at 2413 Weber St

Co-ordinates

- o 'X' Coordinate = 543300.948
- o 'Y' Coordinate = 1536000.884

Date and time (with previous dry hours)

- o 04/01/2010 11:27 AM
- o pdh ~ 19

Sampling personnel

- o Darlene Crosby

Description of catchment

Cover information

- o Minimal to moderate canopy coverage; predominately Oak trees.

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Two lane road; asphalt

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Vertical curb

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Inlet basket

Approximate age

- o ~2 years

Previous cleaning activity

- o Within 30 day period

Condition

- o Functioning as Designed

Condition of PM residuals

- o Moist

Dimensions and volume

- o Top: 16.5", Bottom: 16", Depth: 18" volume: 2.16 ft³

Description of flow to BMP

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 9891

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Mixed
- o COC provided on 04.02.09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
MCO : city of Orlando
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R : residential land use
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO-CB-C-OUT-1)

Sample identification

- o CO – MCB – C – OUT – 1

Jurisdiction

- o City of Orlando

Land use zoning

- o Commercial

Location

- o NW corner of Seaboard Rd. and Mercy Dr.

Co-ordinates

- o X : 517782.945 and Y : 1544506.653

Date and time (with previous dry hours)

- o 3/31/2009 11:44 AM
- o pdh~48

Sampling personnel

- o Darlene Crosby

Description of catchment

Cover information

- o Minimal canopy coverage, predominately oak, cypress, and crape myrtle trees

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Three lane road

Run-on conditions

- o Commercial location

Reclaimed water application

- o No

Basic description of soil type

- o Smyrna fine sand

Drainage appurtenances in the area

- o Standard 6" Curb and gutter

Significant features influencing PM, N, P load

- o CB is located just North of the Coca-Cola manufacturing plant, heavy traffic, and landscaping activities

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o 20 years

Previous cleaning activity

- o Within previous 30 days

Condition

- o Functioning as designed

Condition of PM residuals

- o Moist but not saturated

Dimensions and volume

- o Cylinder: 49 in (depth) x 48 in (width), V: 51.31ft³

Description of flow to catch basin

- o Curb inlet collects runoff and minimal overflow

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 4500

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist but not saturated
- o COC provided on 04.02.09



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO-CB-C-OUT-2)

Sample identification

- o MCO – CB – C – OUT – 2

Jurisdiction

- o City of Orlando

Land use zoning

- o Commercial

Location

- o SE corner of N. Orange Ave. and E. Robinson St.

Co-ordinates

- o X : 534500.412 and Y : 1531259.455

Date and time (with previous dry hours)

- o 4/1/2009 9:34 AM
- o pdh~17

Sampling personnel

- o Darlene Crosby

Description of catchment

Cover information

- o Minimal canopy coverage, predominately oak and palm trees

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Four lane road

Run-on conditions

- o Commercial location

Reclaimed water application

- o No

Basic description of soil type

- o Urban land

Drainage appurtenances in the area

- o Standard 6" Curb and gutter

Significant features influencing PM, N, P load

- o Downtown area, high pedestrian traffic

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o 45 years

Previous cleaning activity

- o Within previous 30 days

Condition

- o Functioning as designed

Condition of PM residuals

- o Moist but not saturated

Dimensions and volume

- o Cylinder: 48 in (depth) x 48 in (width),
V: 50.27ft³

Description of flow to catch basin

- o Curb inlet collects runoff and minimal overflow

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 31079

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist but not saturated
- o COC provided on 04.02.09



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO-CB-C-OUT-3)

Sample identification

- o MCO – CB – C – OUT – 3

Jurisdiction

- o City of Orlando

Land use zoning

- o Commercial

Location

- o SE corner of Lake Dot near W. Concord St. and Lake Dot Cr.

Co-ordinates

- o X : 532256.686 and Y : 1533409.004

Date and time (with previous dry hours)

- o 3/31/2009 2:31 PM
- o pdh~N/A

Sampling personnel

- o Darlene Crosby

Description of catchment

Cover information

- o Moderate canopy cover, oak, cypress, and palm trees

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Two lane brick road

Run-on conditions

- o Commercial location

Reclaimed water application

- o No

Basic description of soil type

- o Tavares – urban land complex

Drainage appurtenances in the area

- o Vertical curb

Significant features influencing PM, N, P load

- o Located near a large special events venue in downtown Orlando, significant homeless population, lawn fertilization, and brick road

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o 90 years

Previous cleaning activity

- o Within previous 30 days

Condition

- o Functioning as designed

Condition of PM residuals

- o Dry to moist

Dimensions and volume

- o Cylinder: 48 in (depth) x 48 in (width), V: 50.27ft³

Description of flow to catch basin

- o Curb inlet collects runoff and minimal overflow

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 2500

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dry to moist
- o COC provided on 04.02.09



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO-CB-H-OUT-1)

Sample identification

- o MCO – CB – H – OUT – 1

Jurisdiction

- o City of Orlando

Land use zoning

- o Highway

Location

- o US 441 on east side at on-ramp to I-4

Co-ordinates

- o X : 528724.625 and Y : 1517867.863

Date and time (with previous dry hours)

- o 3/31/2009 10:45 AM

- o pdh~46

Sampling personnel

- o Darlene Crosby

Description of catchment

Cover information

- o Low to Moderate canopy coverage, predominately oak trees

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Four lane road

Run-on conditions

- o Highway location

Reclaimed water application

- o No

Basic description of soil type

- o Tavares – urban land complex

Drainage appurtenances in the area

- o Standard 6" Curb and gutter, swales, ditches

Significant features influencing PM, N, P load

- o CB is located in a heavily traveled area

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o 45 years

Previous cleaning activity

- o Within previous 30 days

Condition

- o Functioning as designed

Condition of PM residuals

- o Moist but no standing water

Dimensions and volume

- o Cylinder: 44 in (depth) x 37 in (width), V: 27.38ft³

Description of flow to catch basin

- o Curb inlet collects runoff and minimal overflow

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 58000

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist but no standing water
- o COC provided on 04.02.09



ADT : average daily traffic

CB : catch basin

COC : chain of custody

H : highway land use

MCO : City of Orlando

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

FIELD INFORMATION - ORLANDO (MCO-CB-H-OUT-2)

Sample identification

- o MCO – CB – H – OUT – 2

Jurisdiction

- o City of Orlando

Land use zoning

- o Highway

Location

- o US 441 and W. Robinson Street

Co-ordinates

- o X : 528555.453 and Y : 1531552.208

Date and time (with previous dry hours)

- o 3/30/2009 10:58 AM

- o pdh~25

Sampling personnel

- o Darlene Crosby

Description of catchment

Cover information

- o Minimal to no canopy coverage, a few oak trees

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Four lane road

Run-on conditions

- o Highway location

Reclaimed water application

- o No

Basic description of soil type

- o Urban land

Drainage appurtenances in the area

- o Standard 6" Curb and gutter

Significant features influencing PM, N, P load

- o CB is located flows through established commercial area

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o 45 years

Previous cleaning activity

- o Within previous 30 days

Condition

- o Functioning as designed

Condition of PM residuals

- o Moist but no standing water

Dimensions and volume

- o Cylinder: 56 in (depth) x 23 in (width),
V: 13.46ft³

Description of flow to catch basin

- o Curb inlet collects runoff and minimal overflow

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 28250

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist but no standing water
- o COC provided on 04.02.09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO-CB-H-OUT-3)

Sample identification

- o MCO – CB – H – OUT – 3

Jurisdiction

- o City of Orlando

Land use zoning

- o Highway

Location

- o SW corner of Orange Ave. and S. Lucerne Cr.

Co-ordinates

- o X : 535150.564 and Y : 1526844.421

Date and time (with previous dry hours)

- o 4/1/2009 9:57 AM
- o pdh~18

Sampling personnel

- o Darlene Crosby

Description of catchment

Cover information

- o Moderate canopy coverage, oak and pam trees

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Highway location

Reclaimed water application

- o No

Basic description of soil type

- o Urban land

Drainage appurtenances in the area

- o Standard 6" Curb and gutter

Significant features influencing PM, N, P load

- o Location flows through an established commercial area near downtown Orlando. Landscaping practices

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o 25 years

Previous cleaning activity

- o Within previous 30 days

Condition

- o Functioning as designed

Condition of PM residuals

- o Moist but not saturated

Dimensions and volume

- o Cylinder: 48 in (depth) x 36 in (width),
V: 28.27ft³

Description of flow to catch basin

- o Curb inlet collects runoff and minimal overflow

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 36897

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist but not saturated
- o COC provided on 04.02.09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO-CB-H-OUT-4)

Sample identification

- o MCO – CB – H – OUT – 4

Jurisdiction

- o City of Orlando

Land use zoning

- o Highway

Location

- o NW corner of SR 50 and N. Bumby Ave.

Co-ordinates

- o X : 543114.837 and Y : 1534063.838

Date and time (with previous dry hours)

- o 4/1/2009 11:05 AM
- o pdh~19

Sampling personnel

- o Darlene Crosby

Description of catchment

Cover information

- o Minimal canopy coverage, oak and palm trees

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Four lane road with turning lane

Run-on conditions

- o Highway location

Reclaimed water application

- o No

Basic description of soil type

- o Millhopper – urban land complex

Drainage appurtenances in the area

- o Standard 6" Curb and gutter

Significant features influencing PM, N, P load

- o CB is located at a heavily traveled highway in a commercial area

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o 50 years

Previous cleaning activity

- o Within previous 30 days

Condition

- o Functioning as designed

Condition of PM residuals

- o Moist but not saturated

Dimensions and volume

- o Cylinder: 60 in (depth) x 48 in (width),
V: 62.83ft³

Description of flow to catch basin

- o Curb inlet collects runoff and minimal overflow

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 51500

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist but not saturated
- o COC provided on 04.02.09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO-CB-H-OUT-5)

Sample identification

- o MCO – CB – H – OUT – 5

Jurisdiction

- o City of Orlando

Land use zoning

- o Highway

Location

- o N side of Hwy 50 and w. Colonial Dr.,
approx. 30 meters east of N. Tampa Ave

Co-ordinates

- o X : 526284.866 and Y : 1533969.274

Date and time (with previous dry hours)

- o 4/1/2009 2:16 PM
- o pdh~22

Sampling personnel

- o Darlene Crosby

Description of catchment

Cover information

- o Moderate canopy coverage
predominately live oak trees

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Four lane road with turning lane

Run-on conditions

- o Highway location

Reclaimed water application

- o No

Basic description of soil type

- o Millhopper – urban land complex

Drainage appurtenances in the area

- o Standard 6" Curb and gutter

Significant features influencing PM, N, P load

- o CB is located at a heavily traveled
highway in a commercial area

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o 50 years

Previous cleaning activity

- o Within previous 30 days

Condition

- o Functioning as designed

Condition of PM residuals

- o Moist but not saturated

Dimensions and volume

- o Cylinder: 66 in (depth) x 36 in (width),
V: 38.88ft³

Description of flow to catch basin

- o Curb inlet collects runoff and minimal
overflow

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 29000

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist but not saturated
- o COC provided on 04.02.09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO-CB-H-OUT-6)

Sample identification

- o MCO – CB – H – OUT – 6

Jurisdiction

- o City of Orlando

Land use zoning

- o Highway

Location

- o West side of SR 436 at onramp from SR 408

Co-ordinates

- o X : 556404.301 and Y : 1529254.297

Date and time (with previous dry hours)

- o 4/1/2009 12:16 PM
- o pdh~10

Sampling personnel

- o Darlene Crosby

Description of catchment

Cover information

- o No canopy coverage

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Six lane highway with median

Run-on conditions

- o Highway location

Reclaimed water application

- o No

Basic description of soil type

- o Urban land

Drainage appurtenances in the area

- o Standard 6" Curb and gutter

Significant features influencing PM, N, P load

- o CB is located at a heavily traveled highway in a commercial area

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o 15 years

Previous cleaning activity

- o Within previous 30 days

Condition

- o Functioning as designed

Condition of PM residuals

- o Saturated but no standing water

Dimensions and volume

- o Cylinder: 55 in (depth) x 46 in (width),
V: 52.89ft³

Description of flow to catch basin

- o Curb inlet collects runoff and minimal overflow

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 55500

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Saturated but no standing water
- o COC provided on 04.02.09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO-CB-R-OUT-1)

Sample identification

- o MCO – CB – R – OUT – 1

Jurisdiction

- o City of Orlando

Land use zoning

- o Residential

Location

- o 2801 Ardsley Dr.

Co-ordinates

- o X : 528148.854 and Y : 1542861.332

Date and time (with previous dry hours)

- o 3/31/2009 12:54 PM
- o pdh~27

Sampling personnel

- o Darlene Crosby

Description of catchment

Cover information

- o Medium canopy coverage, predominately consisting of life oak and magnolia trees

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o N/A

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o Zolfo-urban land complex

Drainage appurtenances in the area

- o Vertical Curb

Significant features influencing PM, N, P load

- o Residential activities, yard waste, chemical application, and car maintenance

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o 57 years

Previous cleaning activity

- o Within previous 30 days

Condition

- o Functioning as designed

Condition of PM residuals

- o Moist but not saturated

Dimensions and volume

- o 38 in (l) x 33 in (w) x 55 in (h),
Volume: 39.91ft³

Description of flow to catch basin

- o Curb inlet collects runoff and minimal overflow

Description of sampling method

- o N/A

Traffic estimate (ADT)

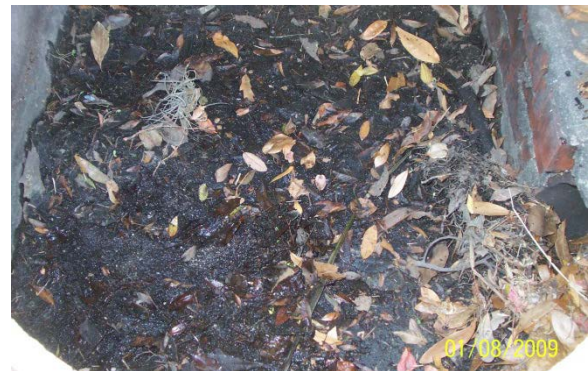
- o 1211

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist but no saturated
- o COC provided on 04.02.09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO-CB-R-OUT-2)

Sample identification

- o MCO – CB – R – OUT – 2

Jurisdiction

- o City of Orlando

Land use zoning

- o Residential

Location

- o 1108 Lancaster Dr., North side of street

Co-ordinates

- o X : 539152.173 and Y : 1524066.138

Date and time (with previous dry hours)

- o 4/1/2009 10:15 AM
- o pdh~18

Sampling personnel

- o Darlene Crosby

Description of catchment

Cover information

- o Heavy canopy coverage, mostly oak with magnolia and cypress trees

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o 0-5% slopes

Run-on conditions

- o Residential location

Reclaimed water application

- o No

Basic description of soil type

- o Flora home-urban land complex

Drainage appurtenances in the area

- o Vertical Curb

Significant features influencing PM, N, P load

- o Residential activities, yard waste, chemical application, and car maintenance

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o 70 years

Previous cleaning activity

- o Within previous 30 days

Condition

- o Functioning as designed

Condition of PM residuals

- o Dry to slightly moist

Dimensions and volume

- o 39 in (l) x 26 in (w) x 34 in (h),
Volume: 19.95ft³

Description of flow to catch basin

- o Curb inlet collects runoff and minimal overflow

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 300

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dry to slightly moist
- o COC provided on 04.02.09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO-CB-R-OUT-3)

Sample identification

- o MCO – CB – R – OUT – 3

Jurisdiction

- o City of Orlando

Land use zoning

- o Residential

Location

- o 1006 Bumby Avenue, located on west side of street

Co-ordinates

- o X : 543113.968 and Y : 1536039.691

Date and time (with previous dry hours)

- o 4/1/2009 11:40 AM
- o pdh~20

Sampling personnel

- o Darlene Crosby

Description of catchment

Cover information

- o Moderate to heavy canopy, predominately oak trees

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o 0-5% slopes

Run-on conditions

- o Residential location

Reclaimed water application

- o No

Basic description of soil type

- o Millhopper-urban land complex

Drainage appurtenances in the area

- o Vertical Curb

Significant features influencing PM, N, P load

- o Residential activities, yard waste, chemical application, and car maintenance

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o 60 years

Previous cleaning activity

- o Within previous 30 days

Condition

- o Functioning as designed

Condition of PM residuals

- o Moist but not saturated

Dimensions and volume

- o 39 in (l) x 26 in (w) x 34 in (h),
Volume: 19.95ft³

Description of flow to catch basin

- o Curb inlet collects runoff and minimal overflow

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 9891

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist but not saturated
- o COC provided on 04.02.09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - ORLANDO (MCO - SS - C - OUT - 1)

Sample ID

- o MCO – SS – C – OUT – 1

Jurisdiction

- o City of Orlando

Land Use Zoning

- o Commercial

Location

- o Silver Star Road commercial/industrial area

Co-ordinates

- o North: 'X' Coordinate = 517836.841, 'Y' Coordinate = 1547309.548
- o South: 'X' Coordinate = 519930.591, 'Y' Coordinate = 1539514.409
- o East: 'X' Coordinate = 525497.19, 'Y' Coordinate = 1543124.54
- o West: 'X' Coordinate = 513938.163, 'Y' Coordinate = 1543121.068

Date and Time (with Previous Dry Hours)

- o 2/13/2009 10:28 AM
- o pdh ~ 254

Sampling Personnel

- o Darlene Crosby

Description of Catchment

Pavement Type

- o Generally: Asphalt, 2% slope, fair condition, pavement age varies

Typical Geometry and R/W Section

- o Commercial 4 lanes, divided with turn lane, no median, 2% slope, asphalt, standard curb and gutter (approx 20%); 2 lanes, divided with turn lane, no median, 2% slope, no curb or gutter, asphalt (approx. 10%); 2 lanes, divided with turn lane, no median, 2% slope, asphalt, standard curb and gutter (approx. 70%)

Run-on Conditions

- o N/A

Drainage Appurtenances in the Catchment Area

- o N/A

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Crosswind Sweeper, a vacuum-type sweeper with a total capacity of 8 cubic yards of material

Dimensions of Area Cleaned

- o 10.09 miles

Previous Cleaning Activity

- o Cleaned every 12 to 15 days

Traffic Estimate (ADT)

- o From 7200 to 38000

Approx. Weight of Recovered Sample

- o 7 cu. Yd.

Description of Sample and COC

- o N/A
- o COC provided on 02.18.09



ADT : average daily traffic
C : commercial land use
COC : chain of custody
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - ORLANDO (MCO - SS - C - OUT - 2)

Sample ID

- o MCO – SS – C – OUT – 2

Jurisdiction

- o City of Orlando

Land Use Zoning

- o Commercial

Location

- o Downtown commercial area

Co-ordinates

- o North: 'X' Coordinate = 535160.385,
'Y' Coordinate = 1535912.734
- o South: 'X' Coordinate = 531295.802,
'Y' Coordinate = 1525996.068
- o East: 'X' Coordinate = 535469.413, 'Y'
Coordinate = 1531294.679
- o West: 'X' Coordinate = 531247.19, 'Y'
Coordinate = 1531312.04

Date and Time (with Previous Dry Hours)

- o 2/16/2009 6:43 AM
- o pdh ~ 4

Sampling Personnel

- o Darlene Crosby

Description of Catchment

Pavement Type

- o Generally: Asphalt, 2% slope, fair condition, pavement age varies

Typical Geometry and R/W Section

- o Commercial/downtown 3 lanes, one-way streets with 2 parking lanes on either side, 2% slope, standard curb and gutter, asphalt (approx. 50%); 2 lanes, no median, 2% slope, asphalt, standard curb and gutter (approx. 40%); 2 lane brick streets, no median, 2% slope, standard curb and gutter (approx. 10%)

Run-on Conditions

- o N/A

Drainage Appurtenances in the Catchment Area

- o N/A

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Pelican Sweeper, a mechanical-type sweeper with a total capacity of 4 cubic yards of material

Dimensions of Area Cleaned

- o 14.98 miles

Previous Cleaning Activity

- o Cleaned every 12 to 15 days

Traffic Estimate (ADT)

- o From 3900 to 43000

Approx. Weight of Recovered Sample

- o 8 cu. Yd.

Description of Sample and COC

- o Two loads of material for a total of 8 yd³, sample composited from 10-15 random grabs from top, middle, and bottom of material pile using an Elgin Pelican Sweeper
- o COC provided on 02.18.09



ADT : average daily traffic
C : commercial land use
COC : chain of custody
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - ORLANDO (MCO - SS - C - OUT - 3)

Sample ID

- o MCO – SS – C – OUT – 3

Jurisdiction

- o City of Orlando

Land Use Zoning

- o Commercial

Location

- o Fashion Square and Orlando Executive Airport area

Co-ordinates

- o North: 'X' Coordinate = 549053.796, 'Y' Coordinate = 1539339.808
- o South: 'X' Coordinate = 545782.963, 'Y' Coordinate = 1531355.433
- o East: 'X' Coordinate = 550145.81, 'Y' Coordinate = 1534641.892
- o West: 'X' Coordinate = 543161.435, 'Y' Coordinate = 1533909.253

Date and Time (with Previous Dry Hours)

- o 2/21/2009 1:13 PM
- o pdh ~ 233

Sampling Personnel

- o Darlene Crosby

Description of Catchment

Pavement Type

- o Generally: Asphalt, 2% slope, fair condition, pavement age varies

Typical Geometry and R/W Section

- o Commercial 4 lanes, divided with median, 2% slope, asphalt, standard curb and gutter (approx 30%); 4 lanes, no median, 2% slope, standard curb and gutter, asphalt (approx. 40%); 2 lanes, no median, 2% slope, asphalt, standard curb and gutter (approx. 30%)

Run-on Conditions

- o N/A

Drainage Appurtenances in the Catchment Area

- o N/A

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Crosswind Sweeper, a vacuum-type sweeper with a total capacity of 8 cubic yards of material

Dimensions of Area Cleaned

- o 7.68 miles

Previous Cleaning Activity

- o Cleaned every 12 to 15 days

Traffic Estimate (ADT)

- o From 3994 to 51500

Approx. Weight of Recovered Sample

- o 6 cu. Yd.

Description of Sample and COC

- o Sample composited from 10-15 random grabs from top, middle, and bottom of material pile using an Elgin Crosswind Sweeper
- o COC provided on 02.18.09



ADT : average daily traffic
C : commercial land use
COC : chain of custody
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - ORLANDO (MCO - SS - H - OUT - 1)

Sample ID

- o MCO – SS – C – OUT – 1

Jurisdiction

- o City of Orlando

Land Use Zoning

- o Highway

Location

- o SR 50 between US 441 and Old Cheney Highway

Co-ordinates

- o East: 'X' Coordinate = 553065.069, 'Y' Coordinate = 1534123.599
- o West: 'X' Coordinate = 529176.18, 'Y' Coordinate = 1533929.154

Date and Time (with Previous Dry Hours)

- o 2/13/2009 6:25 AM
- o pdh ~ 76

Sampling Personnel

- o Darlene Crosby

Description of Catchment

Pavement Type

- o Generally: Asphalt, 2% slope, fair condition, pavement age varies

Typical Geometry and R/W Section

- o Highway 4 lanes, divided with turn lane, standard curb and gutter, 2% slope, approx. 50% concrete and 50% asphalt

Run-on Conditions

- o N/A

Drainage Appurtenances in the Catchment Area

- o N/A

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Crosswind Sweeper, a vacuum-type sweeper with a total capacity of 8 cubic yards of material

Dimensions of Area Cleaned

- o 4.47 miles

Previous Cleaning Activity

- o Cleaned every 12 to 15 days

Traffic Estimate (ADT)

- o From 12500 to 51500

Approx. Weight of Recovered Sample

- o 6 cu. Yd.

Description of Sample and COC

- o One load of material for a total of 6 yd³, sample composited from 10-15 random grabs from top, middle, and bottom of material pile using an Elgin Crosswind Sweeper
- o COC provided on 02.18.09



ADT : average daily traffic
COC : chain of custody
H : highway land use
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - ORLANDO (MCO - SS - H - OUT - 2)

Sample ID

- o MCO – SS – C – OUT – 2

Jurisdiction

- o City of Orlando

Land Use Zoning

- o Highway

Location

- o SR 436 between Pershing Avenue and Lake Underhill Road

Co-ordinates

- o North: 'X' Coordinate = 556426.18, 'Y' Coordinate = 1532095.821
- o South: 'X' Coordinate = 556537.291, 'Y' Coordinate = 1514213.877

Date and Time (with Previous Dry Hours)

- o 2/16/2009 10:20 AM
- o pdh ~ 129

Sampling Personnel

- o Darlene Crosby

Description of Catchment

Pavement Type

- o Generally: Asphalt, 2% slope, fair condition, pavement age varies

Typical Geometry and R/W Section

- o Highway 6 lanes, divided with median and turn lanes, standard curb and gutter, 2% slope, asphalt

Run-on Conditions

- o N/A

Drainage Appurtenances in the Catchment Area

- o N/A

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Crosswind Sweeper, a vacuum-type sweeper with a total capacity of 8 cubic yards of material

Dimensions of Area Cleaned

- o 2.76 miles

Previous Cleaning Activity

- o Cleaned every 12 to 15 days

Traffic Estimate (ADT)

- o From 20500 to 112000

Approx. Weight of Recovered Sample

- o 2 cu. Yd.

Description of Sample and COC

- o One load of material for a total of 2 yd³, sample composited from 10-15 random grabs from top, middle, and bottom of material pile using an Elgin Crosswind Sweeper
- o COC provided on 02.18.09



ADT : average daily traffic
COC : chain of custody
H : highway land use
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - ORLANDO (MCO - SS - H - OUT - 3)

Sample ID

- o MCO – SS – C – OUT – 3

Jurisdiction

- o City of Orlando

Land Use Zoning

- o Highway

Location

- o US 441 between I-4 overpass and Princeton Road

Co-ordinates

- o North: 'X' Coordinate = 526049.908,
'Y' Coordinate = 1540809.924
- o South: 'X' Coordinate = 528672.645,
'Y' Coordinate = 1516999.764

Date and Time (with Previous Dry Hours)

- o 2/13/2009 3:50 AM
- o pdh ~74

Sampling Personnel

- o Darlene Crosby

Description of Catchment

Pavement Type

- o Generally: Asphalt, 2% slope, fair condition, pavement age varies

Typical Geometry and R/W Section

- o Highway 4 lanes, divided with median and turn lanes, standard curb and gutter, 2% slope, approx. 50% concrete and 50% asphalt

Run-on Conditions

- o N/A

Drainage Appurtenances in the Catchment Area

- o N/A

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Crosswind Sweeper, a vacuum-type sweeper with a total capacity of 8 cubic yards of material

Dimensions of Area Cleaned

- o 4.87 miles

Previous Cleaning Activity

- o Cleaned every 12 to 15 days

Traffic Estimate (ADT)

- o From 1350 to 58000

Approx. Weight of Recovered Sample

- o 4 cu. Yd.

Description of Sample and COC

- o One load of material for a total of 4 yd³, sample composited from 10-15 random grabs from top, middle, and bottom of material pile using an Elgin Crosswind Sweeper
- o COC provided on 02.18.2009



ADT : average daily traffic
COC : chain of custody
H : highway land use
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping

FIELD INFORMATION - ORLANDO (MCO - SS - R - OUT - 1)

Sample ID

- o MCO – SS – R – OUT – 1

Jurisdiction

- o City of Orlando

Land Use Zoning

- o Residential

Location

- o Lake Silver area

Co-ordinates

- o North: 'X' Coordinate = 528371.505, 'Y' Coordinate = 1547183.558
- o South: 'X' Coordinate = 529170.984, 'Y' Coordinate = 1541196.579
- o East: 'X' Coordinate = 530364.56, 'Y' Coordinate = 1545162.725
- o West: 'X' Coordinate = 527177.06, 'Y' Coordinate = 1543841.545

Date and Time (with Previous Dry Hours)

- o 2/11/2009 1:52 PM
- o pdh ~209

Sampling Personnel

- o Darlene Crosby

Description of Catchment

Pavement Type

- o Generally: Asphalt, 2% slope, fair condition, pavement age varies

Typical Geometry and R/W Section

- o Residential 2 lanes, no median, 2% slope, asphalt, predominately vertical curb (approx. 80%) or no curb and gutter (approx. 20%); Approx. 15% of roadway expands to 4 lanes with standard curb and gutter.

Run-on Conditions

- o N/A

Drainage Appurtenances in the Catchment Area

- o N/A

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Crosswind Sweeper, a vacuum-type sweeper with a total capacity of 8 cubic yards of material

Dimensions of Area Cleaned

- o 8.1 miles

Previous Cleaning Activity

- o Cleaned every 12 to 15 days

Traffic Estimate (ADT)

- o From 284 to 9590

Approx. Weight of Recovered Sample

- o 16 cu. Yd.

Description of Sample and COC

- o One load of material for a total of 16yd³, sample composited from 10-15 random grabs from top, middle, and bottom of material pile using an Elgin Crosswind Sweeper
- o COC provided on 02.18.09



ADT : average daily traffic
COC : chain of custody
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping

FIELD INFORMATION - ORLANDO (MCO - SS - R - OUT - 2)

Sample ID

- o MCO – SS – R – OUT – 2

Jurisdiction

- o City of Orlando

Land Use Zoning

- o Residential

Location

- o Lancaster area

Co-ordinates

- o North: 'X' Coordinate = 538474.872, 'Y' Coordinate = 1524793.162
- o South: 'X' Coordinate = 539268.384, 'Y' Coordinate = 1520732.257
- o East: 'X' Coordinate = 541238.093, 'Y' Coordinate = 1522068.469
- o West: 'X' Coordinate = 536618.667, 'Y' Coordinate = 1522539.572

Date and Time (with Previous Dry Hours)

- o 2/10/2009 2:16 PM
- o pdh ~186

Sampling Personnel

- o Darlene Crosby

Description of Catchment

Pavement Type

- o Generally: Asphalt, 2% slope, fair condition, pavement age varies

Typical Geometry and R/W Section

- o Residential 2 lanes, no median, 2% slope, approx. 50% asphalt and 50% brick, predominately vertical curb (approx. 90%)with minimal standard curb and gutter (approx. 10%)

Run-on Conditions

- o N/A

Drainage Appurtenances in the Catchment Area

- o N/A

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Crosswind Sweeper, a vacuum-type sweeper with a total capacity of 8 cubic yards of material

Dimensions of Area Cleaned

- o 8.11 miles

Previous Cleaning Activity

- o Cleaned every 12 to 15 days

Traffic Estimate (ADT)

- o From 136 to 8634

Approx. Weight of Recovered Sample

- o 14 cu. Yd.

Description of Sample and COC

- o One load of material for a total of 14yd³, sample composited from 10-15 random grabs from top, middle, and bottom of material pile using an Elgin Crosswind Sweeper
- o COC provided on 02.18.09



ADT : average daily traffic
COC : chain of custody
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping

FIELD INFORMATION - ORLANDO (MCO - SS - R - OUT - 3)

Sample ID

- o MCO – SS – R – OUT – 3

Jurisdiction

- o City of Orlando

Land Use Zoning

- o Residential

Location

- o Lake Druid Area

Co-ordinates

- o N/A

Date and Time (with Previous Dry Hours)

- o 2/12/2009 11:10 AM
- o pdh ~231

Sampling Personnel

- o Darlene Crosby

Description of Catchment

Pavement Type

- o Generally: Asphalt, 2% slope, fair condition, pavement age varies

Typical Geometry and R/W Section

- o Residential 2 lanes, no median, 2% slope, vertical curb, asphalt

Run-on Conditions

- o N/A

Drainage Appurtenances in the Catchment Area

- o N/A

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Crosswind Sweeper, a vacuum-type sweeper with a total capacity of 8 cubic yards of material

Dimensions of Area Cleaned

- o 9.58 miles

Previous Cleaning Activity

- o Cleaned every 12 to 15 days

Traffic Estimate (ADT)

- o From 154 to 16341

Approx. Weight of Recovered Sample

- o 6 cu. Yd.

Description of Sample and COC

- o One load of material for a total of 6 yd³, sample composited from 10-15 random grabs from top, middle, and bottom of material pile using an Elgin Crosswind Sweeper
- o COC provided on 02.18.09



ADT : average daily traffic
COC : chain of custody
MCO : City of Orlando
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping

PENSACOLA/ESCAMBIA
COUNTY
(PEC)

FIELD INFORMATION - PENSACOLA (PEC - BMP - C - OUT -1)

Sample identification

- o PEC - BMP - C - OUT -1

Jurisdiction

- o Pensacola and Escambia County

Land use zoning

- o Commercial

Location

- o Site is on R/W of south side of Power St

Co-ordinates

- o 87.34629° N, 30.64187° W

Date and time (with previous dry hours)

- o 07/21/2009
- o pdh ~ 48

Sampling personnel

- o Matt Kelly, field data Erin Percifull

Description of catchment

Cover information

- o 40% tree coverage, pine and oak. Pervious stormwater pond surrounding with grass embankment sloping down toward pond, approx. 10% impervious

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Asphalt slightly raised center line sloping toward roadway, drainage area is approx. 40 acres

Run-on conditions

- o Flow from commercial frontage to 19 catchments varying between grated catchments and manhole catchments, to stormwater pond

Reclaimed water application

- o No

Basic description of soil type

- o Medium light brown sand

Drainage appurtenances in the area

- o 19 catchments (grated and manhole catchments) leading to a stormwater pond with an overspill box

Significant features influencing PM, N, P load

- o Grass clippings, 10% impervious

Predominant PM, N, and P sources

- o Grass clippings

Description of BMP

Type

- o Stormwater pond with overspill

Approximate age

- o ~10 years

Previous cleaning activity

- o Only as needed

Condition

- o Good

Condition of PM residuals

- o Dry

Dimensions and volume

- o 200' x 200'

Description of flow to BMP

- o Flow from catchments to stormwater pond with overspill box

Description of sampling method

- o Followed B3.6.1.2 of QAPP using stainless steel scoop

Traffic estimate (ADT)

- o 50

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dry particulate matter
- o COC provided on 07.24.2009



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
PEC : Pensacola
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way

FIELD INFORMATION - PENSACOLA (PEC - BMP - C - OUT -2)

Sample identification

- o PEC - BMP - C - OUT -2

Jurisdiction

- o Pensacola and Escambia County

Land use zoning

- o Commercial

Location

- o 9 mile and University Parkway

Co-ordinates

- o N 30.53102, W 087.22099

Date and time (with previous dry hours)

- o 07/22/2009

- o pdh ~ 72

Sampling personnel

- o Matt Kelly, field data Erin Percifull

Description of catchment

Cover information

- o 15% tree coverage, pine and oak. 25% impervious, property slope toward road.

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Asphalt, raised centerline sloping toward the edge of roadway, curb and gutter system present, approx 800 yards of ditch section present along 9 mile road, drainage area is approx 30 acres.

Run-on conditions

- o Flow from commercial area into small drainage stormwater treatment basin

Reclaimed water application

- o No

Basic description of soil type

- o Light brown medium brown sand

Drainage appurtenances in the area

- o Approx. a dozen catchments consisting of manhole catchments, grated catchments, and a S/W holding pond.

Significant features influencing PM, N, P load

- o Leaf litter, human debris, possible fertilizer, 25% impervious surface.

Predominant PM, N, and P sources

- o leaf litter, grass clippings, high traffic area, litter

Description of BMP

Type

- o S/W treatment pond with overspill box

Approximate age

- o ~15 years

Previous cleaning activity

- o Only as needed

Condition

- o Fair, 10 in of sediment, leaf debris

Condition of PM residuals

- o Dry moist

Dimensions and volume

- o S/W pond is approx 125 ft by 50 ft. Spill box is approx 2 ft wide.

Description of flow to BMP

- o Discharge from upstream system to s/w treatment pond

Description of sampling method

- o Followed B3.6.1.2 of QAPP using stainless steel scoop

Traffic estimate (ADT)

- o 30,000

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dry particulate matter
- o COC provided on 07.24.2009



ADT : average daily traffic

BMP : best management practice

C : commercial land use

COC : chain of custody

PEC : Pensacola

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

FIELD INFORMATION - PENSACOLA (PEC - BMP - C - OUT - 3)

Sample identification

- o PEC - BMP - C - OUT -3

Jurisdiction

- o Pensacola and Escambia County

Land use zoning

- o Residential/Commercial

Location

- o 12th Ave and Tunis Dr.

Co-ordinates

- o N 30.4480, W 087.20827

Date and time (with previous dry hours)

- o 10/21/2009

- o pdh ~ 24

Sampling personnel

- o Erin Percifull

Description of catchment

Cover information

- o 30% tree cover, mainly oak, <15% impervious. Property frontages slope toward road

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Asphalt , raised center line sloping toward the curb, curb and gutter system. Drainage area approx 20-30 acres.

Run-on conditions

- o Flow from residential to Carpenters Creek.

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine

Drainage appurtenances in the area

- o 4 catchments in the immediate area that lead to vortex box that leads to Carpenters Creek

Significant features influencing PM, N, P load

- o Leaf litter, lawn clippings, acorns, <15 % impervious area

Predominant PM, N, and P sources

- o leaf, grass, and anthropogenic litter

Description of BMP

Type

- o Manhole catchment leading to vortex box.

Approximate age

- o ~30 years

Previous cleaning activity

- o Only as needed

Condition

- o good condition, <2in of sediment.

Condition of PM residuals

- o Dry

Dimensions and volume

- o 10' x 5' x 4'

Description of flow to BMP

- o Discharge from upstream to vortex box to Carpenters Creek

Description of sampling method

- o Followed B3.6.1.2 of QUAPP using stainless steel scoop

Traffic estimate (ADT)

- o 1500

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dry particulate matter
- o COC provided on 10.21.2009



ADT : average daily traffic

BMP : best management practice

C : commercial land use

COC : chain of custody

PEC : Pensacola

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

FIELD INFORMATION - PENSACOLA (PEC - BMP - H - OUT - 1)

Sample identification

- o PEC - BMP - H - OUT –1

Jurisdiction

- o Escambia County

Land use zoning

- o Highway, Commercial

Location

- o Highway 29 (South of 95A Split), sample was in median in grated catchment

Co-ordinates

- o 87.31643° N, 30.60540° W

Date and time (with previous dry hours)

- o 07/21/2009
- o pdh ~ 48

Sampling personnel

- o Matt Kelly, field data Erin Percifull

Description of catchment

Cover information

- o <5 % tree cover, 80% impervious, property frontage slopes toward roadside holding ditch

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Asphalt, no curb or gutter system, ditch section present, drainage area is 2 acres,

Run-on conditions

- o Flow from commercial frontage to 19 catchments varying between grated catchments and manhole catchments, to stormwater pond with an overspill

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine light brown sand with small mixture of clay

Drainage appurtenances in the area

- o 6 catchments in shopping center that flow to ditch connected to median

Significant features influencing PM, N, P load

- o Grass clippings

Predominant PM, N, and P sources

- o litter from nearby shopping center and traffic

Description of BMP

Type

- o Catchment in median ditch

Approximate age

- o ~20 years

Previous cleaning activity

- o Only as needed

Condition

- o Good

Condition of PM residuals

- o Dry

Dimensions and volume

- o 2' x 2' x 2'

Description of flow to BMP

- o Flow to ditch connected to median which flows to Jacks branch

Description of sampling method

- o Followed B3.6.1.2 of QAPP using stainless steel scoop

Traffic estimate (ADT)

- o 25000

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dry particulate matter
- o COC provided on 07.24.2010



ADT : average daily traffic

BMP : best management practice

COC : chain of custody

H : highway land use

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PEC : Pensacola

PM : particulate matter

R/W : right of way

FIELD INFORMATION - PENSACOLA (PEC - BMP - H - OUT - 2)

Sample identification

- o PEC - BMP - H - OUT -2

Jurisdiction

- o Escambia County and Pensacola

Land use zoning

- o Commercial

Location

- o Four-Lane State Highway within Commercial Corridor Surrounded by Limited Access Roadway (I-10)

Co-ordinates

- o 87.22060° N, 30.50472° W

Date and time (with previous dry hours)

- o 07/22/2009
- o pdh ~ 72

Sampling personnel

- o Matt Kelly, field data Erin Percifull

Description of catchment

Cover information

- o 15% cover mainly oak and grass, <60 % impervious, front of property slope toward the road

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Curb and gutter system present, ditch section present , < 2 acres drainage

Run-on conditions

- o Flow from commercial and hwy to ditch which flows into Carpenters Creek via inline culverts.

Reclaimed water application

- o No

Basic description of soil type

- o Medium to light brown sand

Drainage appurtenances in the area

- o In line ditch system

Significant features influencing PM, N, P load

- o Heavy growth in ditch, grass clippings , open ditch catchment

Predominant PM, N, and P sources

- o High volume of traffic, heavy growth

Description of BMP

Type

- o Road side ditch

Approximate age

- o ~8 years

Previous cleaning activity

- o Only as needed

Condition

- o Heavily vegetated

Condition of PM residuals

- o Dry

Dimensions and volume

- o 40' x 15' x 3'

Description of flow to BMP

- o Flow from commercial area and roadside into ditch which flows to Carpenters Creek via inline culverts

Description of sampling method

- o Followed B3.6.1.2 of QUAPP using stainless steel scoop

Traffic estimate (ADT)

- o 30,000

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dry particulate matter
- o COC provided on 07.24.2010



ADT : average daily traffic

BMP : best management practice

COC : chain of custody

H : highway land use

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PEC : Pensacola

PM : particulate matter

R/W : right of way

FIELD INFORMATION - PENSACOLA (PEC - BMP - H - OUT - 3)

Sample identification

- o PEC - BMP - H - OUT -3

Jurisdiction

- o Escambia County and Pensacola

Land use zoning

- o Commercial

Location

- o NW side of Springhill Rd and Hillsdale Rd

Co-ordinates

- o 87.21823° N, 30.47120° W

Date and time (with previous dry hours)

- o 12/16/2009
- o pdh ~ 24

Sampling personnel

- o Erin Percifull

Description of catchment

Cover information

- o 40% pine, oak, and myrtle cover, approx 15% impervious, 2/3 of property frontages slope toward roadway, 1/3 property frontages slope away

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Curb and gutter system, slightly raised center line that slopes toward edge of roadway, drainage area is approx. 30 acres.

Run-on conditions

- o Runoff from residential to baffle box into Carpenters Creek

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine grain sand

Drainage appurtenances in the area

- o 5 catchments and a 3 chamber baffle box that discharge to Carpenters Creek.

Significant features influencing PM, N, P load

- o Leaf litter and yard clippings, possible fertilizer

Predominant PM, N, and P sources

- o biogenic- leaf litter and lawn clippings

Description of BMP

Type

- o 3 chamber baffle box

Approximate age

- o ~8 years

Previous cleaning activity

- o Only as needed

Condition

- o Good condition, sediment and some leaf matter found

Condition of PM residuals

- o Dry

Dimensions and volume

- o 3' x 3' x 10'

Description of flow to BMP

- o Discharge from upstream to baffle box out to carpenters creek

Description of sampling method

- o Followed B3.6.1.2 of QUAPP using stainless steel scoop

Traffic estimate (ADT)

- o 50

Approx. weight of recovered sample

- o 1.887 kg

Description of sample and COC

- o Dry particulate matter
- o COC provided on 12/16/09



ADT : average daily traffic

BMP : best management practice

COC : chain of custody

H : highway land use

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PEC : Pensacola

PM : particulate matter

R/W : right of way

FIELD INFORMATION - PENSACOLA (PEC - BMP - H - OUT - 4)

Sample identification

- o PEC - BMP - H - OUT – 4

Jurisdiction

- o Escambia County and Pensacola

Land use zoning

- o Commercial

Location

- o SW corner of Sunset and Navy Blvd

Co-ordinates

- o N 30.38231, W 087.27792

Date and time (with previous dry hours)

- o 1/27/2010 12:45 PM
- o pdh ~ 72

Sampling personnel

- o Erin Percifull

Description of catchment

Cover information

- o property frontages slope toward the road, 15% oak cover, <50% impervious

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Asphalt, raised center line sloping toward edge of roadway, curb and gutter present, no ditch

Run-on conditions

- o Flow from commercial and residential to roadway, flows to catchment, which flows to davenport bayou then flowing into Pensacola bay

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Approx. 10 catchments

Significant features influencing PM, N, P load

- o Leaf litter, pebble, and rock debris

Predominant PM, N, and P sources

- o High amount of traffic, and litter such as cigarette butts

Description of BMP

Type

- o Manhole catchment

Approximate age

- o <20 years

Previous cleaning activity

- o Only as needed

Condition

- o Good condition, lead litter

Condition of PM residuals

- o Dry, moist

Dimensions and volume

- o 4' x 4' x 6'

Description of flow to BMP

- o Flow from uphill to catchment to davenport bayou to Pensacola Bay

Description of sampling method

- o Followed B3.6.1.2 of QUAPP using stainless steel scoop

Traffic estimate (ADT)

- o 44,000

Approx. weight of recovered sample

- o 2.975 kg

Description of sample and COC

- o Dry particulate matter
- o COC provided on 12/16/09

ADT : average daily traffic

BMP : best management practice

COC : chain of custody

H : highway land use

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PEC : Pensacola

PM : particulate matter

R/W : right of way

FIELD INFORMATION - PENSACOLA (PEC - BMP - R - OUT - 1)

Sample identification

- o PEC - BMP - R - OUT -1

Jurisdiction

- o Pensacola/Escambia County

Land use zoning

- o Residential

Location

- o Lakes of Carrington Subdivision on Carrington Lake Blvd. between Cheshire and Aberdeen Dr.

Co-ordinates

- o 87.34326° N, 30.65483° W

Date and time (with previous dry hours)

- o 07/21/2009
- o pdh ~ 48

Sampling personnel

- o Matt Kelly and Erin Percifull

Description of catchment

Cover information

- o 85% vegetation consisting of mainly sage grass and ragweed, on top of pervious clay/sand mixture, property slopes toward the road. 15% impervious

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Asphalt, slightly raised centerline with a curb and gutter system, no ditch, drainage area approx. 10 acres

Run-on conditions

- o Flow from residential to the roadway leading to the stormwater pond

Reclaimed water application

- o No

Basic description of soil type

- o Med-fine clay sand

Drainage appurtenances in the area

- o 6 manhole catchments leading to storm water evaporation percolation pond

Significant features influencing PM, N, P load

- o Some grass clippings, red clay sand mixture, and unstabilized ground

Predominant PM, N, and P sources

- o New development, grass clippings

Description of BMP

Type

- o Storm water evaporation percolation pond

Approximate age

- o <5 years

Previous cleaning activity

- o Only as needed

Condition

- o Good

Condition of PM residuals

- o Dry

Dimensions and volume

- o 400' long, 200' wide

Description of flow to BMP

- o Flow from upstream residential to catchments which lead into the storm water pond

Description of sampling method

- o Followed B3.6.1.2 of QAPP using stainless steel scoop

Traffic estimate (ADT)

- o <20 cars

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dry particulate matter
- o COC provided on 07.24.2009



ADT : average daily traffic

BMP : best management practice

COC : chain of custody

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PEC : Pensacola

PM : particulate matter

R : residential land use

R/W : right of way

FIELD INFORMATION - PENSACOLA (PEC - BMP - R - OUT - 2)

Sample identification

- o PEC - BMP - R - OUT -2

Jurisdiction

- o Pensacola/Escambia County

Land use zoning

- o Residential

Location

- o Storm water basin 350 ft. E of corner of Mozingo Ln and Airway

Co-ordinates

- o 87.24829° N, 30.52835° W

Date and time (with previous dry hours)

- o 07/22/2009
- o pdh ~ 72

Sampling personnel

- o Matt Kelly and Erin Percifull

Description of catchment

Cover information

- o 20 % vegetation consisting of pine, oak and other hardwoods. <15 % impervious.

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Slightly elevated centerline sloping toward curb, curb and gutter system present, drainage area approx 50 acres

Run-on conditions

- o Flow from residential area to roadway drainage to stormwater drainage basin

Reclaimed water application

- o No

Basic description of soil type

- o Medium light brown sand

Drainage appurtenances in the area

- o 8 catchments 150 ft to residential stormwater swell that overflows to storm water pipe into scenic hills basin

Significant features influencing PM, N, P load

- o Fertilizer, leaf litter, lawn clippings, new construction, softball field clay

Predominant PM, N, and P sources

- o Softball field nearby with impervious clay, leaf litter, and clippings

Description of BMP

Type

- o Storm water drainage basin

Approximate age

- o ~5 years

Previous cleaning activity

- o Only as needed

Condition

- o Good

Condition of PM residuals

- o Dry

Dimensions and volume

- o 1 acre with overspill box

Description of flow to BMP

- o Flow from upstream residential to 8 catchments leading into the basin

Description of sampling method

- o Followed B3.6.1.2 of QUAPP using stainless steel scoop

Traffic estimate (ADT)

- o 75 cars

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dry particulate matter
- o COC provided on 07.24.2009



ADT : average daily traffic

BMP : best management practice

COC : chain of custody

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PEC : Pensacola

PM : particulate matter

R : residential land use

R/W : right of way

FIELD INFORMATION - PENSACOLA (PEC - BMP - R - OUT - 3)

Sample identification

- o PEC - BMP - R - OUT -3

Jurisdiction

- o Pensacola/Escambia County

Land use zoning

- o Residential

Location

- o Strong St. between Guillemard and Tarragona

Co-ordinates

- o N 30.42258, W.087.21558

Date and time (with previous dry hours)

- o 10/22/2009, 2:00PM
- o pdh ~ 48

Sampling personnel

- o Erin Percifull

Description of catchment

Cover information

- o 20 % tree cover (palm and oak). 60% impervious pavement. Slope from center line of road to catchment and curbage.

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Asphalt road with a raised center sloped toward curb and gutter system. Drainage area is approx. 3.5 acres.

Run-on conditions

- o Flow from residential area to Pensacola Bay

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o 2 catchments

Significant features influencing PM, N, P load

- o Leaf litter and lawn clippings, approx 25 % impervious area

Predominant PM, N, and P sources

- o Leaf litter and lawn clippings as well as solid waste container w/ 2in drain hole

Description of BMP

Type

- o Receiving curbside catchment

Approximate age

- o N/A

Previous cleaning activity

- o Only as needed

Condition

- o Good condition, leaves

Condition of PM residuals

- o Moist

Dimensions and volume

- o 6' x 6' x 6', 2 yd³

Description of flow to BMP

- o Runoff Flows from 1.5 acre impervious lot and residential frontages to catchment which flows out to Pensacola Bay

Description of sampling method

- o Followed B3.6.1.2 of QUAPP using stainless steel scoop

Traffic estimate (ADT)

- o 7000 cars

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist particulate matter
- o COC provided on 10.22.09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PEC : Pensacola
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - PENSACOLA - ESCAMBIA (PEC - CB - C - OUT - 1)

Sample identification

- o PEC – CB – C – OUT – 1

Jurisdiction

- o Pensacola – Escambia County

Land use zoning

- o Commercial, wholesale sales and services

Location

- o Corner of Power and Success Street

Co-ordinates

- o 30.64134° N and 87.35022° W

Date and time (with previous dry hours)

- o 7/21/2009
- o pdh ~ 48

Sampling personnel

- o Matt Kelly and Erin Percifull

Description of catchment

Cover information

- o > 15% grass/vegetation and < 15% impervious (good condition)

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Asphalt, slightly raised centerline sloping toward edge of roadway, curb and gutter system present, no ditch section, drainage area < 3 acres

Run-on conditions

- o Flow from commercial commerce park to catchment which flows to stormwater pond with spill box

Reclaimed water application

- o No

Basic description of soil type

- o Light brown, medium grain sandy soil

Drainage appurtenances in the area

- o 8 manhole catchments leading to stormwater pond

Significant features influencing PM, N, P load

- o Leaf litter and grass clippings

Predominant PM, N, and P sources

- o Biogenic: leaf litter and grass clippings

Description of catch basin

Type

- o Manhole catchment

Approximate age

- o ~ 10 years

Previous cleaning activity

- o N/A

Condition

- o Good, < 2" sediment

Condition of PM residuals

- o Dry

Dimensions and volume

- o 1yd³

Description of flow to catch basin

- o Flow from upstream commercial to catchments to stormwater pond which flows to Jack's Branch

Description of sampling method

- o Followed B3.6.1.2 of QAPP using stainless steel scoop

Traffic estimate (ADT)

- o 50

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Unknown
- o COC provided on 07.24.2010



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PEC : Pensacola – Escambia County
PM : particulate matter
R/W : right of way

FIELD INFORMATION - PENSACOLA - ESCAMBIA (PEC - CB - C - OUT - 2)

Sample identification

- o PEC – CB – C – OUT – 2

Jurisdiction

- o Pensacola – Escambia County

Land use zoning

- o Commercial, mix of retail sales and services, professional services, and multiple residential dwelling units

Location

- o East side of University Parkway, 1 block north of Davis Highway

Co-ordinates

- o 30.50436° N and 87.22129° W

Date and time (with previous dry hours)

- o 7/22/2009
- o pdh ~ 72

Sampling personnel

- o Matt Kelly and Erin Percifull

Description of catchment

Cover information

- o < 15% oak and < 20% impervious, property frontage slope toward road

Potential constraints to property access

- o East side of University Parkway surrounded by commercial property

Typical geometry and R/W section

- o Asphalt, elevated center of road down toward the curb, no ditch and drainage area < 15 acres

Run-on conditions

- o Run-off from commercial area to University Parkway

Reclaimed water application

- o No

Basic description of soil type

- o Light brown and medium grain

Drainage appurtenances in the area

- o 6 catchments flow to Escambia River

Significant features influencing PM, N, P load

- o Leaf litter and grass clippings

Predominant PM, N, and P sources

- o Biogenic: leaf litter and Anthropogenic: human litter and traffic

Description of catch basin

Type

- o Grated manhole catchment

Approximate age

- o ~ 20 years

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Dry/moist

Dimensions and volume

- o 1.3 yd³

Description of flow to catch basin

- o Flow from University Pkwy

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 39,000

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Unknown
- o COC provided on 07.24.2010



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PEC : Pensacola – Escambia County
PM : particulate matter
R/W : right of way

FIELD INFORMATION - PENSACOLA - ESCAMBIA (PEC - CB - C - OUT - 3)

Sample identification

- o PEC – CB – C – OUT – 3

Jurisdiction

- o Pensacola – Escambia County

Land use zoning

- o Residential, predominately retail sales and services, adjacent railroad lines, Nearby Stadium, and limited access roadway

Location

- o 9th Avenue and Wright Street

Co-ordinates

- o 30.41843° N and 87.20597° W

Date and time (with previous dry hours)

- o 10/21/2009 11:00 AM
- o pdh ~ 24 (last storm 0.01")

Sampling personnel

- o Erin Percifull

Description of catchment

Cover information

- o < 15% oak, palm and shrub and < 20% impervious, property frontage slope toward road

Potential constraints to property access

- o Surrounded by commercial and residential property

Typical geometry and R/W section

- o Asphalt, elevated center of road down toward the curb, no ditch and drainage area 20 acres

Run-on conditions

- o Flow from commercial/residential area

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o Curb and gutter system

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of catch basin

Type

- o N/A

Approximate age

- o N/A

Previous cleaning activity

- o Cleaned on as needed basis

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o N/A

Description of flow to catch basin

- o Flow from 4 lane road

Description of sampling method

- o Followed B3.6.1.2 of QAPP using stainless steel scoop

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Mostly sediment
- o COC provided on 10.21.09



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PEC : Pensacola – Escambia County
PM : particulate matter
R/W : right of way

FIELD INFORMATION - PENSACOLA - ESCAMBIA (PEC - CB - H - OUT - 1)

Sample identification

- o PEC – CB – H – OUT – 1

Jurisdiction

- o Pensacola – Escambia County

Land use zoning

- o Commercial/Industrial, heavy industrial with retail sales and services, and golf course

Location

- o SE corner of Hwy 29 and Muscogee

Co-ordinates

- o 30.61123° N and 87.32043° W

Date and time (with previous dry hours)

- o 7/21/2009
- o pdh ~ 48 (last storm 0.04")

Sampling personnel

- o Matt Kelly and Erin Percifull

Description of catchment

Cover information

- o < 15% oak and pine and < 15% impervious (good condition), property frontage slope toward road

Potential constraints to property access

- o Commercial property

Typical geometry and R/W section

- o Raised center line sloping toward edge of roadway, 400 yd of ditch section on west side of hwy, and < 30 acres of drainage area

Run-on conditions

- o Flow from upstream commercial

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine light brown soil/sand

Drainage appurtenances in the area

- o Manholes and grated catchments

Significant features influencing PM, N, P load

- o Leaf and woody litter and possible fertilizer

Predominant PM, N, and P sources

- o Anthropogenic: golf course, traffic and paper mill across the street

Description of catch basin

Type

- o Manhole

Approximate age

- o 30 years

Previous cleaning activity

- o Cleaned on as needed basis

Condition

- o Poor, needs maintenance/cleaning

Condition of PM residuals

- o Dry

Dimensions and volume

- o ~ 1 yd³

Description of flow to catch basin

- o Flow from upstream

Description of sampling method

- o Followed B3.6.1.2 of QAPP using stainless steel scoop

Traffic estimate (ADT)

- o 10,000

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Mostly sediment
- o COC provided on 07.24.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PEC : Pensacola – Escambia County
PM : particulate matter
R/W : right of way

FIELD INFORMATION - PENSACOLA - ESCAMBIA (PEC - CB - H - OUT - 2)

Sample identification

- o PEC – CB – H – OUT – 2

Jurisdiction

- o Pensacola – Escambia County

Land use zoning

- o Commercial corridor surrounded by retail sales and services, and limited access roadway

Location

- o NE corner of Bloodworth and Davis Hwy

Co-ordinates

- o 30.49990° N and 87.22153° W

Date and time (with previous dry hours)

- o 7/22/2009
- o pdh ~ 72 (last storm 0.04")

Sampling personnel

- o Matt Kelly and Erin Percifull

Description of catchment

Cover information

- o < 5% oak and 60% impervious (good condition), adjoined property slopes toward sidewalk to roadway

Potential constraints to property access

- o Commercial property

Typical geometry and R/W section

- o Raised center line, asphalt roadway, adjacent ditch ~300 ft, and drainage area ~100 acres

Run-on conditions

- o Run-off from commercial to edge of roadway

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine light brown sand

Drainage appurtenances in the area

- o Curb and gutter system

Significant features influencing PM, N, P load

- o Grass clippings and human litter

Predominant PM, N, and P sources

- o Anthropogenic: grass clippings and Biogenic: high traffic

Description of catch basin

Type

- o Manhole with grate

Approximate age

- o 30 years

Previous cleaning activity

- o Cleaned on as needed basis

Condition

- o Good

Condition of PM residuals

- o Dry

Dimensions and volume

- o < 1 yd³

Description of flow to catch basin

- o Flow from upstream

Description of sampling method

- o Followed B3.6.1.2 of QAPP using stainless steel scoop

Traffic estimate (ADT)

- o 20,000

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 07.24.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PEC : Pensacola – Escambia County
PM : particulate matter
R/W : right of way

FIELD INFORMATION - PENSACOLA - ESCAMBIA (PEC - CB - H - OUT - 3)

Sample identification

- o PEC – CB – H – OUT – 3

Jurisdiction

- o Pensacola – Escambia County

Land use zoning

- o Commercial corridor surrounded by mix of retail sales and services and single family detached residential

Location

- o NE corner of Gulf Bch Highway and Navy Boulevard

Co-ordinates

- o 30.38786° N and 87.27807° W

Date and time (with previous dry hours)

- o 12/16/2009
- o pdh ~ 24 (last storm 0.98")

Sampling personnel

- o Erin Percifull

Description of catchment

Cover information

- o < 10% tree cover (mostly oak) and 70% impervious

Potential constraints to property access

- o Commercial property

Typical geometry and R/W section

- o Curb and gutter system, small ditch along Navy Blvd for 400-600 ft

Run-on conditions

- o Run-off from commercial area

Reclaimed water application

- o No

Basic description of soil type

- o Light brown, medium grain

Drainage appurtenances in the area

- o Curb and gutter system to 4 main catchments

Significant features influencing PM, N, P load

- o Tree branches, grass clippings, and possible fertilizer

Predominant PM, N, and P sources

- o Anthropogenic: grass clippings and tree branches, Biogenic: heavy traffic and human litter

Description of catch basin

Type

- o Manhole

Approximate age

- o 25 years

Previous cleaning activity

- o Cleaned on as needed basis

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o 1.3 yd³

Description of flow to catch basin

- o Flow from road with contributing flow from roadside grass-well ditch

Description of sampling method

- o Followed B3.6.1.2 of QAPP using stainless steel scoop

Traffic estimate (ADT)

- o 20,000

Approx. weight of recovered sample

- o 2.7033 kg

Description of sample and COC

- o N/A
- o COC provided on 01/04/2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PEC : Pensacola – Escambia County
PM : particulate matter
R/W : right of way

FIELD INFORMATION - PENSACOLA - ESCAMBIA (PEC - CB - R - OUT - 1)

Sample identification

- o PEC – CB – R – OUT – 1

Jurisdiction

- o Pensacola – Escambia County

Land use zoning

- o Residential, single family detached subdivision

Location

- o N/A

Co-ordinates

- o 30.65795° N and 87.34318° W

Date and time (with previous dry hours)

- o 7/21/2009
- o pdh ~ 48 (last storm 0.04")

Sampling personnel

- o Matt Kelly and Erin Percifull

Description of catchment

Cover information

- o > 60% vegetation (grass and ragweed), property front slope toward road and 15% impervious

Potential constraints to property access

- o Private property access

Typical geometry and R/W section

- o Asphalt, raised centerline, drainage area < 3 acres, curb and gutter system

Run-on conditions

- o Flow from residential yards to road

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine clay sand

Drainage appurtenances in the area

- o Curb and gutter system to 4 manholes

Significant features influencing PM, N, P load

- o Grass clippings, sediment from unstabilized single family lots due to new construction

Predominant PM, N, and P sources

- o Anthropogenic: grass clippings and Biogenic: new development

Description of catch basin

Type

- o Manhole catchment

Approximate age

- o < 5 years

Previous cleaning activity

- o Cleaned on as needed basis

Condition

- o Good

Condition of PM residuals

- o Dry

Dimensions and volume

- o Cylindrical: 8 ft (h) x 4 ft (w)

Description of flow to catch basin

- o From upstream residential

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o < 20

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 07.24.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PEC : Pensacola – Escambia County
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - PENSACOLA - ESCAMBIA (PEC - CB - R - OUT - 2)

Sample identification

- o PEC – CB – R – OUT – 2

Jurisdiction

- o Pensacola – Escambia County

Land use zoning

- o Residential, single family detached residential subdivision

Location

- o 350 ft East of intersection of Airway Dr. and Monzingo Ln, Airway Oaks community

Co-ordinates

- o 30.5288° N and 87.24081° W

Date and time (with previous dry hours)

- o 7/22/2009
- o pdh ~ 72 (last storm 0.04")

Sampling personnel

- o Matt Kelly

Description of catchment

Cover information

- o > 20% vegetation(pine, oak and other hardwoods) and 15% impervious, property front slope toward road

Potential constraints to property access

- o Surrounded by private property and wetland basement easement

Typical geometry and R/W section

- o Slightly elevated centerline slopping to curb and gutter system, drainage area is 50 acres

Run-on conditions

- o Flow from residential area to road

Reclaimed water application

- o No

Basic description of soil type

- o Medium light brown sand

Drainage appurtenances in the area

- o Curb and gutter system to 4 catchments

Significant features influencing PM, N, P load

- o Potential fertilizer, new construction and softball field clay

Predominant PM, N, and P sources

- o Anthropogenic: nearby softball field with clay and Biogenic: leaf litter and clippings

Description of catch basin

Type

- o Retention swell

Approximate age

- o 5 years

Previous cleaning activity

- o N/A

Condition

- o Good

Condition of PM residuals

- o Dry moist

Dimensions and volume

- o 1 yd³

Description of flow to catch basin

- o From upstream residential

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o 75

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Leaf litter and lawn clippings
- o COC provided on 07.24.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PEC : Pensacola – Escambia County
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - PENSACOLA - ESCAMBIA (PEC - CB - R - OUT - 3)

Sample identification

- o PEC – CB – R – OUT – 3

Jurisdiction

- o Pensacola – Escambia County

Land use zoning

- o Residential, single family detached residential subdivision

Location

- o NW corner of 10th Ave. and Escalona

Co-ordinates

- o 30.44611° N and 87.21104° W

Date and time (with previous dry hours)

- o 10/21/2009
- o pdh ~ 24 (last storm 0.01")

Sampling personnel

- o Erin Percifull

Description of catchment

Cover information

- o < 15% oak cover, < 30% impervious, and property front slope toward road

Potential constraints to property access

- o Surrounded by private and residential property

Typical geometry and R/W section

- o Asphalt with raised center line sloping toward the curb and gutter system, drainage area of 7-10 acres

Run-on conditions

- o Flow from residential area to road

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o Curb and gutter system to 4 catchments

Significant features influencing PM, N, P load

- o Catchment located on curbside of yard

Predominant PM, N, and P sources

- o Leaf litter and lawn clippings

Description of catch basin

Type

- o Manhole catchment

Approximate age

- o 30 years

Previous cleaning activity

- o Cleaned as needed

Condition

- o Good

Condition of PM residuals

- o Dry moist

Dimensions and volume

- o 10 x 4 x 41, ~ 2 yd³

Description of flow to catch basin

- o From upstream residential

Description of sampling method

- o Followed B3.6.1.2 of QAPP using stainless steel scoop

Traffic estimate (ADT)

- o 60 - 80

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Leaf litter and lawn clippings
- o COC provided on 10.27.2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PEC : Pensacola – Escambia County
PM : particulate matter
R : residential land use
R/W : right of way

FIELD INFORMATION - PENSACOLA (PEC - SS - C - OUT - 1)

Sample ID

- o PEC – SS – C – OUT – 1

Jurisdiction

- o Pensacola

Land Use Zoning

- o Commercial

Location

- o Central Commerce Park (Hwy 29)

Co-ordinates

- o 87.34952° N, 30.64576° W

Date and Time (with Previous Dry Hours)

- o 11/24/2009 2:00 PM
- o ~48

Sampling Personnel

- o Erin Percifull

Description of Catchment

Pavement Type

- o Asphalt, raised centerline, good condition, approx. 10 years old

Typical Geometry and R/W Section

- o Curb and gutter, property frontages slope toward road

Run-on Conditions

- o Runoff from commercial frontages with parking lots and grass

Drainage Appurtenances in the Catchment Area

- o 9 manhole catchments and 1 grated catchment

Significant Features that may affect PM, N and P loadings

- o Grass clippings, <20% impervious parking

Predominant Source

- o Grass clippings

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Eagle Sweeper

Dimensions of Area Cleaned

- o ½ mile

Previous Cleaning Activity

- o SS occurs every two months

Traffic Estimate (ADT)

- o 50

Approx. Weight of Recovered Sample

- o ~3.4 kg

Description of Sample and COC

- o Fine sediment dominates the sample with a mixture of trash and biogenic material.
- o COC provided on 11/30/09



ADT : average daily traffic
C : commercial land use
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PEC : Pensacola
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
SS : street sweeping

FIELD INFORMATION - PENSACOLA (PEC - SS - C - OUT - 2)

Sample ID

- o PEC – SS – C – OUT – 2

Jurisdiction

- o Pensacola

Land Use Zoning

- o Commercial

Location

- o University parkway, between 9 Mile Rd and Davis Hwy

Co-ordinates

- o 87.22060° N, 30.51807° W

Date and Time (with Previous Dry Hours)

- o 11/24/2009 11:00 AM
- o ~48

Sampling Personnel

- o Erin Percifull

Description of Catchment

Pavement Type

- o N/A

Typical Geometry and R/W Section

- o N/A

Run-on Conditions

- o N/A

Drainage Appurtenances in the Catchment Area

- o N/A

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o N/A

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Sterling Elgin Eagle Sweeper, Series F, 1999

Dimensions of Area Cleaned

- o ½ mile, 12 feet from curb to center road where brooms spanned

Previous Cleaning Activity

- o SS occurs every two months

Traffic Estimate (ADT)

- o 50

Approx. Weight of Recovered Sample

- o ~3.04 kg

Description of Sample and COC

- o Medium to fine dark brown sand
- o COC provided on 11/30/09



ADT : average daily traffic
C : commercial land use
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PEC : Pensacola
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
SS : street sweeping

FIELD INFORMATION - PENSACOLA (PEC - SS - C - OUT - 3)

Sample ID

- o PEC – SS – C – OUT – 3

Jurisdiction

- o Pensacola

Land Use Zoning

- o Commercial

Location

- o Intersection at 12th Ave and Bayou Blvd.

Co-ordinates

- o 87.20714° N, 30.47011° W

Date and Time (with Previous Dry Hours)

- o 11/20/2009 9:30 AM
- o ~72

Sampling Personnel

- o Erin Percifull

Description of Catchment

Pavement Type

- o Asphalt, raised center line sloping toward roadside edge, property frontages slope toward road, good condition, approx. 25 years old.

Typical Geometry and R/W Section

- o Curb and gutter, gutter and manhole catchment present approx. 20 ft from sampled area, no ditch section present

Run-on Conditions

- o Runoff from commercial properties to road

Drainage Appurtenances in the Catchment Area

- o 10 catchments

Significant Features that may affect PM, N and P loadings

- o Grass clippings, approx 40% impervious with parking lots on properties next to roadside, leaf litter

Predominant Source

- o N/A

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Pelican unit 143, year 1996

Dimensions of Area Cleaned

- o Approx. 100 ft on each corner of intersection

Previous Cleaning Activity

- o SS occurs every month

Traffic Estimate (ADT)

- o 30,000

Approx. Weight of Recovered Sample

- o ~3.179 kg

Description of Sample and COC

- o Medium to fine dark brown sand
- o COC provided on 11/23/09



ADT : average daily traffic
C : commercial land use
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PEC : Pensacola
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
SS : street sweeping

FIELD INFORMATION - PENSACOLA (PEC - SS - H - OUT - 1)

Sample ID

- o PEC – SS – H – OUT – 1

Jurisdiction

- o Pensacola

Land Use Zoning

- o Highway

Location

- o 95A and Woodbury Cir.

Co-ordinates

- o 87.31974° N, 30.61052° W

Date and Time (with Previous Dry Hours)

- o 11/24/2009 1:50 PM
- o ~48

Sampling Personnel

- o Erin Percifull

Description of Catchment

Pavement Type

- o Asphalt, good condition

Typical Geometry and R/W Section

- o Curb and gutter, no ditch

Run-on Conditions

- o Runoff from yards to road edge, flowing to catchments, which empty to 11 mile creek

Drainage Appurtenances in the Catchment Area

- o 9 catchments

Significant Features that may affect PM, N and P loadings

- o Leaf litter, grass clippings

Predominant Source

- o Leaf litter, grass clippings, traffic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Sterling Elgin Eagle Sweeper, Series F, 1999

Dimensions of Area Cleaned

- o ½ mile

Previous Cleaning Activity

- o SS occurs every two months

Traffic Estimate (ADT)

- o 300

Approx. Weight of Recovered Sample

- o ~2.64 kg

Description of Sample and COC

- o Light brown medium grain size
- o COC provided on 11/30/09



ADT : average daily traffic
COC : chain of custody
H : highway land use
N : nitrogen
P : phosphorus
pdh : previous dry hours
PEC : Pensacola
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
SS : street sweeping

FIELD INFORMATION - PENSACOLA (PEC - SS - H - OUT - 2)

Sample ID

- o PEC – SS – H – OUT – 2

Jurisdiction

- o Pensacola

Land Use Zoning

- o Highway

Location

- o Plantation Rd and Creighton Rd

Co-ordinates

- o 87.22134° N, 30.50865° W

Date and Time (with Previous Dry Hours)

- o 11/24/2009 11:20 AM
- o ~48

Sampling Personnel

- o Erin Percifull

Description of Catchment

Pavement Type

- o Asphalt, property frontages slope toward road, road has raised centerline sloping toward edge of road, good condition, approx. 20 years old

Typical Geometry and R/W Section

- o Curb and gutter, no ditch, 10 ft wide parallel parking easement

Run-on Conditions

- o Runoff from commercial to road edge which flows into Carpenters Creek

Drainage Appurtenances in the Catchment Area

- o 6 catchments in the area draining to Carpenters Creek

Significant Features that may affect PM, N and P loadings

- o 3 grated catchments in the parking lot surrounding the road, large commercial paved area approx 50% impervious, leaf litter and grass clippings

Predominant Source

- o Leaf litter and grass clippings

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Ford, Elgin Eagle Sweeper, year 2002.

Dimensions of Area Cleaned

- o 1/4 mile

Previous Cleaning Activity

- o Unknown

Traffic Estimate (ADT)

- o 20,000

Approx. Weight of Recovered Sample

- o ~1.7 kg

Description of Sample and COC

- o Light brown medium grain size
- o COC provided on 11/30/09



ADT : average daily traffic
COC : chain of custody
H : highway land use
N : nitrogen
P : phosphorus
pdh : previous dry hours
PEC : Pensacola
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
SS : street sweeping

FIELD INFORMATION - PENSACOLA (PEC - SS - H - OUT - 3)

Sample ID

- o PEC – SS – H – OUT – 3

Jurisdiction

- o Pensacola

Land Use Zoning

- o Highway

Location

- o Hwy 29 (Pace blvd. to Fairfield)

Co-ordinates

- o 87.22905° N, 30.44712° W

Date and Time (with Previous Dry Hours)

- o 11/19/2009 5:00 PM
- o ~48

Sampling Personnel

- o Erin Percifull

Description of Catchment

Pavement Type

- o Asphalt, slightly raised centerline sloping toward roadway, good condition

Typical Geometry and R/W Section

- o Curb and gutter, no ditch

Run-on Conditions

- o Runoff from commercial to road way

Drainage Appurtenances in the Catchment Area

- o Within the affected area approx. 12 catchments varying between grated and manhole catchments

Significant Features that may affect PM, N and P loadings

- o Leaf litter, human litter, such as cigarette butts and plastics, approx. 40% impervious parking area

Predominant Source

- o Traffic, leaf litter

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Regenerative Air Systems, Unit 143, year 1996, type is pelican

Dimensions of Area Cleaned

- o 100 ft each direction on intersection of Fairfield and Palifox

Previous Cleaning Activity

- o Cleaning occurs once a month

Traffic Estimate (ADT)

- o 13,000

Approx. Weight of Recovered Sample

- o ~2.226 kg

Description of Sample and COC

- o Sediment mixed with small amount of anthropogenic material
- o COC provided on 11/23/09



ADT : average daily traffic

COC : chain of custody

H : highway land use

N : nitrogen

P : phosphorus

pdh : previous dry hours

PEC : Pensacola

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

SS : street sweeping

FIELD INFORMATION - PENSACOLA (PEC - SS - R - OUT - 1)

Sample ID

- o PEC – SS – R – OUT – 1

Jurisdiction

- o Pensacola

Land Use Zoning

- o Residential

Location

- o Quinette Rd (1st part of Lakes of Carrington Subdivision)

Co-ordinates

- o 87.34218° N, 30.65795° W

Date and Time (with Previous Dry Hours)

- o 11/24/2009 12:30 PM
- o ~48

Sampling Personnel

- o Erin Percifull

Description of Catchment

Pavement Type

- o Asphalt, raised centerline sloping to edge of roadway, property frontages slope toward roadway, approx. <3 yrs old, good condition

Typical Geometry and R/W Section

- o Curb and gutter, no ditch

Run-on Conditions

- o Runoff from residential property which is undeveloped grassy frontages, flowing to roadway into catchments leading to evaporation percolation pond.

Drainage Appurtenances in the Catchment Area

- o 4 manhole catchments

Significant Features that may affect PM, N and P loadings

- o Grass clipping, clay

Predominant Source

- o Undeveloped properties

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Sterling Elgin Eagle Sweeper, Series F, 1999

Dimensions of Area Cleaned

- o 1 mile, 12 ft. wide area

Previous Cleaning Activity

- o Unknown

Traffic Estimate (ADT)

- o <20 vehicles per day

Approx. Weight of Recovered Sample

- o ~2.78 kg

Description of Sample and COC

- o Dry/moist, light red/brown sand
- o COC provided on 11/30/09



ADT : average daily traffic

COC : chain of custody

N : nitrogen

P : phosphorus

pdh : previous dry hours

PEC : Pensacola

PM : particulate matter

OUT : outside reclaimed water area

R : residential land use

R/W : right of way

SS : street sweeping

FIELD INFORMATION - PENSACOLA (PEC - SS - R - OUT - 2)

Sample ID

- o PEC – SS – R – OUT – 2

Jurisdiction

- o Pensacola

Land Use Zoning

- o Residential

Location

- o Airway oaks subdivision

Co-ordinates

- o 87.24618° N, 30.52716° W

Date and Time (with Previous Dry Hours)

- o 11/24/2009 12:00 PM
- o ~48

Sampling Personnel

- o Erin Percifull

Description of Catchment

Pavement Type

- o Asphalt, good condition, property frontages slope toward road, slightly raised centerline sloping toward curb, approx. <10 years old

Typical Geometry and R/W Section

- o Curb and gutter, no ditch, drainage area approx. 50 acres

Run-on Conditions

- o N/A

Drainage Appurtenances in the Catchment Area

- o N/A

Significant Features that may affect PM, N and P loadings

- o N/A

Predominant Source

- o N/A

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Eagle sweeper, year 2002

Dimensions of Area Cleaned

- o 1 mile, 2 ft. wide broom.

Previous Cleaning Activity

- o Sweeping occurs every 2 months

Traffic Estimate (ADT)

- o <75 vehicles per day

Approx. Weight of Recovered Sample

- o ~3.38 kg

Description of Sample and COC

- o Dry/moist, light red/brown sand
- o COC provided on 11/30/09



ADT : average daily traffic
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PEC : Pensacola
PM : particulate matter
OUT : outside reclaimed water area
R : residential land use
R/W : right of way
SS : street sweeping

FIELD INFORMATION - PENSACOLA (PEC - SS - R - OUT - 3)

Sample ID

- o PEC – SS – R – OUT – 3

Jurisdiction

- o Pensacola

Land Use Zoning

- o Residential

Location

- o Airport Blvd and Walton Dr.

Co-ordinates

- o 87.22422° N, 30.48141° W

Date and Time (with Previous Dry Hours)

- o 11/03/2009 10:45 AM
- o ~72

Sampling Personnel

- o Erin Percifull

Description of Catchment

Pavement Type

- o 30 ft wide asphalt with curbing, slight raised center of road , good condition. Approx. 30 years old.

Typical Geometry and R/W Section

- o Slightly raised center in road sloping toward the edge of roadway. Gutter and curb system present.

Run-on Conditions

- o Residential yard and edge of roadway to Carpenters Creek.

Drainage Appurtenances in the Catchment Area

- o 6 catch basins located along Walton Dr

Significant Features that may affect PM, N and P loadings

- o Tree cover and clippings, yard and leaf debris

Predominant Source

- o Small accumulations of trash/litter

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Regenerative Air systems, Unit: 114, year: '07, type: international

Dimensions of Area Cleaned

- o Approx. 1/2 mile, 8 ft. from curb

Previous Cleaning Activity

- o Sweeping occurs every month

Traffic Estimate (ADT)

- o 20,000

Approx. Weight of Recovered Sample

- o ~2.83 kg

Description of Sample and COC

- o Dry/moist, light red/brown sand
- o COC provided on 11/09/09



ADT : average daily traffic
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PEC : Pensacola
PM : particulate matter
OUT : outside reclaimed water area
R : residential land use
R/W : right of way
SS : street sweeping

SARASOTA COUNTY

(SAC)

FIELD INFORMATION - SARASOTA (SAC - BMP - C - OUT - 1)

Sample identification

- o SAC – BMP – C – OUT – 1

Jurisdiction

- o Sarasota County

Land use zoning

- o Commercial

Location

- o Washington Dr. at John Ringling Blvd.,
St. Armands Circle, Sarasota, Fl.

Co-ordinates

- o Lat: 27.31755 and Lon: -82.57877

Date and time (with previous dry hours)

- o 7/30/2010 10:00 AM
- o pdh ~ 87

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o 2-lane

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Baffle Box

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Submerged

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Petit Ponar

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Submerged
- o COC provided on 07.31.2010

ADT : average daily traffic

BMP : best management practice

C : commercial land use

COC : chain of custody

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - BMP - C - OUT - 2)

Sample identification

- o SAC – BMP – C – OUT – 2

Jurisdiction

- o Sarasota County

Land use zoning

- o Commercial

Location

- o Rawls St. at Alderman St. Sarasota, Fl.

Co-ordinates

- o Lat: 27.33055 and Lon: -82.53792

Date and time (with previous dry hours)

- o 7/30/2010 10:55 AM

- o pdh ~ 40

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o 2-lane

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter, piped

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Biogenic

Description of BMP

Type

- o Baffle Box

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Petit Ponar

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist

- o COC provided on 07.31.2010

ADT : average daily traffic

BMP : best management practice

C : commercial land use

COC : chain of custody

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - BMP - C - OUT - 3)

Sample identification

- o SAC – BMP – C – OUT – 3

Jurisdiction

- o Sarasota County

Land use zoning

- o Commercial

Location

- o Avenida Madera at Calle Minorga, Siesta Key, Sarasota, FL.

Co-ordinates

- o Lat: 27.27693 and Lon: -82.56348

Date and time (with previous dry hours)

- o 7/29/2010 10:10 AM
- o pdh ~ 72

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Baffle Box

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Petit Ponar

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 07.31.2010



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - BMP - H - OUT - 1)

Sample identification

- o SAC – BMP – H – OUT – 1

Jurisdiction

- o Sarasota County

Land use zoning

- o Commercial

Location

- o John Ringling Blvd. at S. Washington Dr., St. Armands, Sarasota, Fl.

Co-ordinates

- o Lat: 27.31986 and Lon: -82.57459

Date and time (with previous dry hours)

- o 7/30/2010 10:20 AM
- o pdh ~ 87

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o 2-lane, divided

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o 50:50 Anthropogenic: Biogenic

Description of BMP

Type

- o Baffle box

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 07.31.2010

ADT : average daily traffic

BMP : best management practice

COC : chain of custody

H : highway land use

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - BMP - H - OUT - 2)

Sample identification

- o SAC – BMP – H – OUT – 2

Jurisdiction

- o Sarasota County

Land use zoning

- o Commercial

Location

- o 121 N. Blvd. of the Presidents at Arthur Dr., St. Armands, Sarasota, Fl.

Co-ordinates

- o Lat: 27.32027 and Lon: -82.5784

Date and time (with previous dry hours)

- o 7/30/2010 9:35 AM
- o pdh ~ 87

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o 4-lane, divided

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o 50:50 Anthropogenic: Biogenic

Description of BMP

Type

- o Baffle box

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Petit Ponar

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 07.31.2010

ADT : average daily traffic

BMP : best management practice

COC : chain of custody

H : highway land use

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - BMP - H - OUT - 3)

Sample identification

- o SAC – BMP – H – OUT – 3

Jurisdiction

- o Sarasota County

Land use zoning

- o Commercial

Location

- o Webber St. at Silk Oak, Sarasota, Fl.

Co-ordinates

- o Lat: 27.30832 and Lon: -82.46756

Date and time (with previous dry hours)

- o 7/30/2010 2:00 PM
- o pdh ~ 0

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Swales and culverts

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Advanced BMP

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Petit Ponar

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 07.31.2010

ADT : average daily traffic

BMP : best management practice

COC : chain of custody

H : highway land use

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - BMP - R - OUT - 1)

Sample identification

- o SAC – BMP – R – OUT – 1

Jurisdiction

- o Sarasota County

Land use zoning

- o Residential

Location

- o Madison Dr. at Adams Dr., St. Armands, Sarasota, Fl.

Co-ordinates

- o Lat: 27.3207 and Lon: -82.57664

Date and time (with previous dry hours)

- o 7/29/2010 1:05 PM
- o pdh ~ 87

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Baffle box

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 07.31.2010



ADT : average daily traffic
BMP : best management practices
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R : residential land use
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - BMP - R - OUT - 2)

Sample identification

- o SAC – BMP – R – OUT – 2

Jurisdiction

- o Sarasota County

Land use zoning

- o Residential

Location

- o Gulf Meade and Lands End Ln., Siesta Key, Sarasota, Fl.

Co-ordinates

- o Lat: 27.30362 and Lon: -82.55779

Date and time (with previous dry hours)

- o 7/29/2010 10:44 AM
- o pdh ~ 72

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Advanced BMP

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 07.31.2010



ADT : average daily traffic
BMP : best management practices
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R : residential land use
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - BMP - R - OUT - 3)

Sample identification

- o SAC – BMP – R – OUT – 3

Jurisdiction

- o Sarasota County

Land use zoning

- o Residential

Location

- o McClellan Prkwy at Hyde Park St.,
Sarasota, Fl

Co-ordinates

- o Lat: 27.3153 and Lon: -82.23777

Date and time (with previous dry hours)

- o 7/29/2010 11:15 AM
- o pdh ~ 0

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o 50:50 Anthropogenic: Biogenic

Description of BMP

Type

- o Baffle Box

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 07.31.2010



ADT : average daily traffic
BMP : best management practices
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R : residential land use
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - CB - C - OUT - 1)

Sample identification

- o SAC – CB – C – OUT – 1

Jurisdiction

- o Sarasota County

Land use zoning

- o Commercial

Location

- o Gateway Ave. at Mall Dr., Gulfgate, Sarasota, Fl.

Co-ordinates

- o Lat: 27.26134 and Lon: -82.51653

Date and time (with previous dry hours)

- o 7/30/2010 2:12 PM
- o pdh ~ 0

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Catch Basin

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 07.31.2010

ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - CB - C - OUT - 2)

Sample identification

- o SAC – CB – C – OUT – 2

Jurisdiction

- o Sarasota County

Land use zoning

- o Commercial

Location

- o Orange Ave. at Dolphin St., Sarasota, FL.

Co-ordinates

- o Lat: 27.33337 and Lon: -82.53907

Date and time (with previous dry hours)

- o 7/30/2010 11:15 AM
- o pdh ~ 40

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Catch Basin

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 07.31.2010



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - CB - C - OUT - 3)

Sample identification

- o SAC – CB – C – OUT – 3

Jurisdiction

- o Sarasota County

Land use zoning

- o Commercial

Location

- o 3713 Bahia Vista St., Dutch Heritage Restaurant, Sarasota, FL.

Co-ordinates

- o Lat: 27.32296 and Lon: -82.49565

Date and time (with previous dry hours)

- o 7/30/2010 3:15 AM
- o pdh ~ 45

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Catch Basin

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 07.31.2010

ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - CB - H - OUT - 1)

Sample identification

- o SAC – CB – H – OUT – 1

Jurisdiction

- o Sarasota County

Land use zoning

- o Highway

Location

- o Swift Rd. at Constitution Blvd.,
Sarasota, Fl.

Co-ordinates

- o Lat: 27.27312 and Lon: -82.51407

Date and time (with previous dry hours)

- o 7/30/2010 2:35 PM
- o pdh ~ 0

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 4-lane, divided

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Catch Basin

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 07.31.2010

ADT : average daily traffic

CB : catch basin

COC : chain of custody

H : highway land use

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - CB - H - OUT - 2)

Sample identification

- o SAC – CB – H – OUT – 2

Jurisdiction

- o Sarasota County

Land use zoning

- o Highway

Location

- o 6730 Bee Ridge Rd. at Hopewell Memorial Park, Sarasota, Fl.

Co-ordinates

- o Lat: 27.29871 and Lon: -82.437

Date and time (with previous dry hours)

- o 8/2/2010 9:44 AM
- o pdh ~ 11

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Swale

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of BMP

Type

- o Catch Basin

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 08.06.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - CB - H - OUT - 3)

Sample identification

- o SAC – CB – H – OUT – 3

Jurisdiction

- o Sarasota County

Land use zoning

- o Highway

Location

- o 4961 Bee Ridge Rd. Median E. of
Crestridge Dr., Sarasota, Fl.

Co-ordinates

- o Lat: 27.29877 and Lon: -82.47051

Date and time (with previous dry hours)

- o 8/2/2010 10:18 AM
- o pdh ~ 11

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 4-lane, divided

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Catch Basin

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 08.06.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - CB - R - OUT - 1)

Sample identification

- o SAC – CB – R – OUT – 1

Jurisdiction

- o Sarasota County

Land use zoning

- o Residential

Location

- o Madison Dr. at Adams Dr., St. Armands, Sarasota, FL.

Co-ordinates

- o Lat: 27.30388 and Lon: -82.55746

Date and time (with previous dry hours)

- o 7/29/2010 1:11 PM
- o pdh ~ 87

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Catch Basin

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 07.31.10

ADT : average daily traffic

CB : catch basin

COC : chain of custody

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - CB - R - OUT - 2)

Sample identification

- o SAC – CB – R – OUT – 2

Jurisdiction

- o Sarasota County

Land use zoning

- o Residential

Location

- o Cherokee Tr. At Cherokee Dr., Sarasota, FL.

Co-ordinates

- o Lat: 27.3075 and Lon: -82.53635

Date and time (with previous dry hours)

- o 7/30/2010 12:00 PM
- o pdh ~ 0

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Catch Basin

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 07.31.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - CB - R - OUT - 3)

Sample identification

- o SAC – CB – R – OUT – 3

Jurisdiction

- o Sarasota County

Land use zoning

- o Residential

Location

- o 312 Beach Road, Siesta Key, Sarasota, FL.

Co-ordinates

- o Lat: 27.27208 and Lon: -82.56266

Date and time (with previous dry hours)

- o 7/29/2010 9:52 AM
- o pdh ~ 72

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Biogenic

Description of BMP

Type

- o Catch Basin

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 0./31.10



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - BMP - C - IN - 1)

Sample identification

- o SAC – BMP – C – IN – 1

Jurisdiction

- o Sarasota County

Land use zoning

- o Commercial

Location

- o Marina Jack, 2 Marina Plaza, Sarasota, FL.

Co-ordinates

- o Lat: 27.3348 and Lon: -82.54644

Date and time (with previous dry hours)

- o 7/29/2010 11:51 AM
- o pdh ~ 87

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Parking lot

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Baffle Box

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 07.31.2010



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - BMP - C - IN - 2)

Sample identification

- o SAC – BMP – C – IN – 2

Jurisdiction

- o Sarasota County

Land use zoning

- o Commercial

Location

- o Marina Jack, 2 Marina Plaza, Sarasota, FL.

Co-ordinates

- o Lat: 27.3342 and Lon: -82.54537

Date and time (with previous dry hours)

- o 7/29/2010 12:26 PM
- o pdh ~ 87

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Parking lot

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Advanced BMP

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 07.31.2010



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - BMP - C - IN - 3)

Sample identification

- o SAC – BMP – C – IN – 3

Jurisdiction

- o Sarasota County

Land use zoning

- o Commercial

Location

- o Westfield Shopping Mall, Parking Lot, East Side, Stormwater Pond

Co-ordinates

- o Lat: 27.23516 and Lon: -82.49

Date and time (with previous dry hours)

- o 8/5/2010 11:12 AM
- o pdh ~ 34

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Parking lot

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Pond inlet

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Dry

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

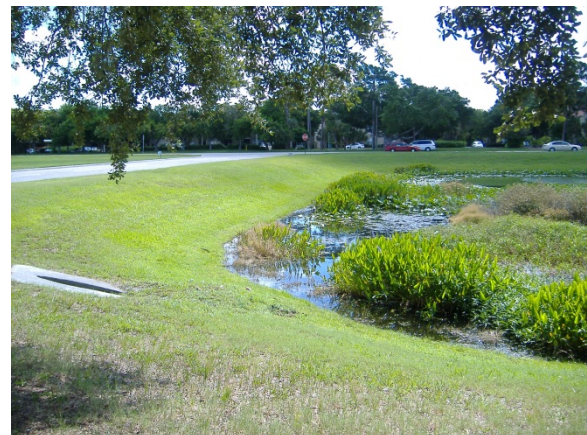
- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dry
- o COC provided on 08.06.2010



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - BMP - H - IN - 1)

Sample identification

- o SAC – BMP – H – IN – 1

Jurisdiction

- o Sarasota County

Land use zoning

- o Commercial

Location

- o Iona Rd. At The Hammocks

Co-ordinates

- o Lat: 27.3036 and Lon: -82.39726

Date and time (with previous dry hours)

- o 8/2/2010 9:25 AM
- o pdh ~ 11

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Advanced BMP

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 08.06.2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - BMP - H - IN - 2)

Sample identification

- o SAC – BMP – H – IN – 2

Jurisdiction

- o Sarasota County

Land use zoning

- o Commercial

Location

- o Honore Ave. N of Palmer Ranch Prkwy;
East side

Co-ordinates

- o Lat: 27.24952 and Lon: -82.46448

Date and time (with previous dry hours)

- o 8/5/2010 10:25 AM
- o pdh ~ 34

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o 4-lane

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Advanced BMP

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Submerged

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Petit Ponar

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Submerged
- o COC provided on 08.06.2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - BMP - H - IN - 3)

Sample identification

- o SAC – BMP – H – IN – 3

Jurisdiction

- o Sarasota County

Land use zoning

- o Commercial

Location

- o Honore Ave., Sarasota, Fl.

Co-ordinates

- o Lat: 27.22729 and Lon: -82.46014

Date and time (with previous dry hours)

- o 8/5/2010 11:00 AM

- o pdh ~ 34

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o 4-lane divided

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Pond inlet

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Submerged

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Petit Ponar

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Submerged

- o COC provided on 08.06.2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - BMP - R - IN - 1)

Sample identification

- o SAC – BMP – R – IN – 1

Jurisdiction

- o Sarasota County

Land use zoning

- o Residential

Location

- o Pelican Cove Condominiums; inlet boxes, Sarasota, Fl.

Co-ordinates

- o Lat: 27.22996 and Lon: -82.50275

Date and time (with previous dry hours)

- o 7/30/2010 1:51 PM
- o pdh ~ 112

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Advanced BMP

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 07.31.2010



ADT : average daily traffic
BMP : best management practices
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - BMP - R - IN - 2)

Sample identification

- o SAC – BMP – R – IN – 2

Jurisdiction

- o Sarasota County

Land use zoning

- o Residential

Location

- o Glebe Farm Rd., The Meadows, Sarasota Fl.

Co-ordinates

- o Lat: 27.3594 and Lon: -82.47533

Date and time (with previous dry hours)

- o 8/2/2010 2:39 PM
- o pdh ~ 15

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Advanced BMP

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 08.06.2010



ADT : average daily traffic
BMP : best management practices
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - BMP - R - IN - 3)

Sample identification

- o SAC – BMP – R – IN – 3

Jurisdiction

- o Sarasota County

Land use zoning

- o Residential

Location

- o Benevento Dr., The Isles of Palmer Ranch, at Clubhouse, Sarasota, Fl.

Co-ordinates

- o Lat: 27.21087 and Lon: -82.44973

Date and time (with previous dry hours)

- o 8/5/2010 10:39 AM
- o pdh ~ 34

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Pond inlet

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Submerged

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Petit Ponar

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Submerged
- o COC provided on 08.06.2010



ADT : average daily traffic
BMP : best management practices
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - CB - C - IN - 1)

Sample identification

- o SAC – CB – C – IN – 1

Jurisdiction

- o Sarasota County

Land use zoning

- o Commercial

Location

- o Van Wezel Performing Arts Hall, 777 N. Tamiami Trail, Sarasota, FL.

Co-ordinates

- o Lat: 27.34402 and Lon: -82.54922

Date and time (with previous dry hours)

- o 7/29/2010 12:46 PM
- o pdh ~ 87

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Parking lot

Run-on conditions

- o Parking lot

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Catch Basin

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 07.31.10



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - CB - C - IN - 2)

Sample identification

- o SAC – CB – C – IN – 2

Jurisdiction

- o Sarasota County

Land use zoning

- o Commercial

Location

- o Westfield Shopping Mall Entrance; N Side; SRQ Blvd. by Sears

Co-ordinates

- o Lat: 27.23653 and Lon: -82.49519

Date and time (with previous dry hours)

- o 8/2/2010 12:25 PM
- o pdh ~ 12

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Parking lot

Run-on conditions

- o Parking lot

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Catch Basin

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 08.06.2010



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - CB - C - IN - 3)

Sample identification

- o SAC – CB – C – IN – 3

Jurisdiction

- o Sarasota County

Land use zoning

- o Commercial

Location

- o 5200 Clark Rd., Norm's Liquors P/L, Sarasota, Fl.

Co-ordinates

- o Lat: 27.26854 and Lon: -82.46635

Date and time (with previous dry hours)

- o 8/2/2010 1:27 PM
- o pdh ~ 0

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Parking lot

Run-on conditions

- o Parking lot

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Catch Basin

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 08.06.2010



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - CB - H - IN - 1)

Sample identification

- o SAC – CB – H – IN – 1

Jurisdiction

- o Sarasota County

Land use zoning

- o Highway

Location

- o Gulf Stream Blvd. at Ringling Blvd.,
Marina Jack, Sarasota, Fl.

Co-ordinates

- o Lat: 27.33233 and Lon: -82.54242

Date and time (with previous dry hours)

- o 7/30/2010 10:45 AM
- o pdh ~ 87

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 4-lane, divided

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Catch Basin

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 07.31.2010

ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - CB - H - IN - 2)

Sample identification

- o SAC – CB – H – IN – 2

Jurisdiction

- o Sarasota County

Land use zoning

- o Highway

Location

- o McIntosh Rd., N of Sarasota Square Blvd., Sarasota, Fl.

Co-ordinates

- o Lat: 27.21844 and Lon: -82.48198

Date and time (with previous dry hours)

- o 8/2/2010 11:05 AM
- o pdh ~ 12

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-lane, divided, vegetated median

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Catch Basin

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 08.06.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - CB - H - IN - 3)

Sample identification

- o SAC – CB – H – IN – 3

Jurisdiction

- o Sarasota County

Land use zoning

- o Highway

Location

- o McIntosh Road; Palmer Ranch;
Sarasota, Fl.

Co-ordinates

- o Lat: 27.22773 and Lon: -82.48164

Date and time (with previous dry hours)

- o 8/2/2010 11:52 AM
- o pdh ~ 12

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-lane, divided

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Catch Basin

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 08.06.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - CB - R - IN - 1)

Sample identification

- o SAC – CB – R – IN – 1

Jurisdiction

- o Sarasota County

Land use zoning

- o Residential

Location

- o Deancroft at Glebe Farm Rd., The Meadows, Sarasota, Fl.

Co-ordinates

- o Lat: 27.35457 and Lon: -82.47668

Date and time (with previous dry hours)

- o 8/2/2010 2:16 PM
- o pdh ~ 15

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Catch Basin

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 08.06.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - CB - R - IN - 2)

Sample identification

- o SAC – CB – R – IN – 2

Jurisdiction

- o Sarasota County

Land use zoning

- o Residential

Location

- o 4686 Glebe Farm Rd., The Meadows, Sarasota, Fl.

Co-ordinates

- o Lat: 27.35649 and Lon: -82.4762

Date and time (with previous dry hours)

- o 8/2/2010 2:30 PM
- o pdh ~ 15

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Catch Basin

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Moist
- o COC provided on 08.06.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SAC : Sarasota County

FIELD INFORMATION - SARASOTA (SAC - CB - R - IN - 3)

Sample identification

- o SAC – CB – R – IN – 3

Jurisdiction

- o Sarasota County

Land use zoning

- o Residential

Location

- o 7791 Alister McKenzie Dr., Laurel Oaks, Sarasota, Fl.

Co-ordinates

- o Lat: 27.30311 and Lon: -82.41692

Date and time (with previous dry hours)

- o 8/5/2010 9:32 AM
- o pdh ~ 39

Sampling personnel

- o Jon Perry

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-lane, undivided

Run-on conditions

- o N/A

Reclaimed water application

- o Yes

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Swales and culverts

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Catch Basin

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Submerged

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o Grab

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Submerged
- o COC provided on 08.06.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SAC : Sarasota County

SEMINOLE COUNTY

(SEC)

FIELD INFORMATION - SEMINOLE (SEC - BMP - C - OUT - 1)

Sample identification

- o SEC – BMP – C – OUT – 1

Jurisdiction

- o Seminole County

Land use zoning

- o Commercial

Location

- o Lake Howell Ln., 1335 SR 436

Co-ordinates

- o 553673.006008 E and 1562752.77405

Date and time (with previous dry hours)

- o 5/6/2010 11:15 AM

Sampling personnel

- o Thomas Calhoun

Description of catchment

Cover information

- o Light canopy, asphalt parking lot

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Commercial and services

Reclaimed water application

- o No

Basic description of soil type

- o Myakka and Eaugallie fine sands

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of BMP

Type

- o Grate top inlet

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 4110

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 05/07/2010

ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
SEC : Seminole County

FIELD INFORMATION - SEMINOLE (SEC - BMP - C - OUT - 2)

Sample identification

- o SEC – BMP – C – OUT – 2

Jurisdiction

- o Seminole County

Land use zoning

- o Commercial

Location

- o 1005Lake Front Ln.

Co-ordinates

- o 520534.189317 E and 1581553.12479 N

Date and time (with previous dry hours)

- o 5/6/2010 10:00 AM

Sampling personnel

- o Thomas Calhoun

Description of catchment

Cover information

- o 50% canopy, asphalt roadway in good condition

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Residential, medium density, 2-5 dwelling units/acre

Reclaimed water application

- o No

Basic description of soil type

- o Astatula-Apapka fine sands, 0-5% slopes

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of BMP

Type

- o First generation baffle box

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 05/07/2010

ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
SEC : Seminole County

FIELD INFORMATION - SEMINOLE (SEC - BMP - C - OUT - 3)

Sample identification

- o SEC – BMP – C – OUT – 3

Jurisdiction

- o Seminole County

Land use zoning

- o Commercial

Location

- o Wayside Dr., 4911 International Pkwy

Co-ordinates

- o 544638.228015 E and 1626759.62401 N

Date and time (with previous dry hours)

- o 5/6/2010 9:30 AM

Sampling personnel

- o Thomas Calhoun

Description of catchment

Cover information

- o 79% canopy, asphalt roadway in good condition

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Mixed wetland hardwoods

Reclaimed water application

- o No

Basic description of soil type

- o Tavares-Millhopper fine sand, 0-5% slopes

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of BMP

Type

- o Curb inlet

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 611

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 05/07/2010

ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
SEC : Seminole County

FIELD INFORMATION - SEMINOLE (SEC - BMP - H - OUT - 1)

Sample identification

- o SEC – BMP – H – OUT – 1

Jurisdiction

- o Seminole County

Land use zoning

- o Highway

Location

- o Dyke Rd. near intersection of Howell Branch Rd.

Co-ordinates

- o 283733.97 N and 811646.50 W

Date and time (with previous dry hours)

- o 7/27/2010 1:45 PM

Sampling personnel

- o Thomas Calhoun and MJ Shelton

Description of catchment

Cover information

- o N/A

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Marinas and fish camps

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of BMP

Type

- o N/A

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o Heavy

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 07.27.2010

ADT : average daily traffic

BMP : best management practice

COC : chain of custody

H : highway land use

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

SEC : Seminole County

FIELD INFORMATION - SEMINOLE (SEC - BMP - H - OUT - 2)

Sample identification

- o SEC – BMP – H – OUT – 2

Jurisdiction

- o Seminole County

Land use zoning

- o Highway

Location

- o 4099 Chickasaw Dr.

Co-ordinates

- o 587456.337815 E and 1624510.75406 N

Date and time (with previous dry hours)

- o 5/6/2010 1:00 PM

Sampling personnel

- o Thomas Calhoun

Description of catchment

Cover information

- o 59% canopy, asphalt roadway in good condition

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Marinas and fish camps

Reclaimed water application

- o No

Basic description of soil type

- o Arents, 0-5% slopes

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of BMP

Type

- o Continuous deflective separation
structure

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 05/07/2010

ADT : average daily traffic

BMP : best management practice

COC : chain of custody

H : highway land use

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

SEC : Seminole County

FIELD INFORMATION - SEMINOLE (SEC - BMP - H - OUT - 3)

Sample identification

- o SEC – BMP – H – OUT – 3

Jurisdiction

- o Seminole County

Land use zoning

- o Highway

Location

- o 1118 Eastbrook Blvd

Co-ordinates

- o 560351.301325 E and 1555082.19893 N

Date and time (with previous dry hours)

- o N/A

Sampling personnel

- o N/A

Description of catchment

Cover information

- o 0% canopy, grassy ditch

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Residential, medium density, 2-5 dwelling units/acre

Reclaimed water application

- o No

Basic description of soil type

- o Urban land

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of BMP

Type

- o Continuous deflective separation structure

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 2398

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A

- o COC provided on 05/07/2010

ADT : average daily traffic

BMP : best management practice

COC : chain of custody

H : highway land use

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

SEC : Seminole County

FIELD INFORMATION - SEMINOLE (SEC - BMP - R - OUT - 1)

Sample identification

- o SEC – BMP – R – OUT – 1

Jurisdiction

- o Seminole County

Land use zoning

- o Residential

Location

- o 429 Alpine St.

Co-ordinates

- o 535643.120486 E and 1579134.67517 N

Date and time (with previous dry hours)

- o 5/6/2010 10:20 AM

Sampling personnel

- o Thomas Calhoun

Description of catchment

Cover information

- o Heavy canopy, asphalt roadway in good condition

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Residential, medium density, 2-5 dwelling units/acre

Reclaimed water application

- o No

Basic description of soil type

- o Urban land

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of BMP

Type

- o First generation baffle box

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 05/07/2010

ADT : average daily traffic

BMP : best management practice

COC : chain of custody

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R : residential land use

R/W : right of way

SEC : Seminole County

FIELD INFORMATION - SEMINOLE (SEC - BMP - R - OUT - 2)

Sample identification

- o SEC – BMP – R – OUT – 2

Jurisdiction

- o Seminole County

Land use zoning

- o Residential

Location

- o Eagle Creek Cir.

Co-ordinates

- o 284417.11 N and 811958.13 W

Date and time (with previous dry hours)

- o 7/27/2010 3:45 PM

Sampling personnel

- o Thomas Calhoun and MJ Shelton

Description of catchment

Cover information

- o Heavy canopy

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of BMP

Type

- o N/A

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 07.27.2010

ADT : average daily traffic
BMP : best management practice
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R : residential land use
R/W : right of way
SEC : Seminole County

FIELD INFORMATION - SEMINOLE (SEC - BMP - R - OUT - 3)

Sample identification

- o SEC – BMP – R – OUT – 3

Jurisdiction

- o Seminole County

Land use zoning

- o Residential

Location

- o 184 Dublin Dr.

Co-ordinates

- o 541886.87422 E and 1604004.85913 N

Date and time (with previous dry hours)

- o 5/6/2010 8:45 AM

Sampling personnel

- o Thomas Calhoun

Description of catchment

Cover information

- o 51% canopy, grass landscaped side yard

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Residential, medium density, 2-5 dwelling units/acre

Reclaimed water application

- o No

Basic description of soil type

- o Urban land

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of BMP

Type

- o Diversion box

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o N/A

Description of flow to BMP

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A

- o COC provided on 05/07/2010

ADT : average daily traffic

BMP : best management practice

COC : chain of custody

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R : residential land use

R/W : right of way

SEC : Seminole County

FIELD INFORMATION - SEMINOLE (SEC - CB - C - OUT - 1)

Sample identification

- o SEC – CB – C – OUT – 1

Jurisdiction

- o Seminole County

Land use zoning

- o Commercial

Location

- o 1844 Longwood Lake Mary Rd.

Co-ordinates

- o 548071.695742 E and 1595403.412 N

Date and time (with previous dry hours)

- o 7/27/2010 12:45 PM

Sampling personnel

- o Thomas Calhoun and MJ Shelton

Description of catchment

Cover information

- o 54% canopy

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Commercial and services in surrounding area

Reclaimed water application

- o No

Basic description of soil type

- o Tavares – Millhopper fine sands, 0-5% slopes

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of catch basin

Type

- o Grate top street inlet

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o N/A

Description of flow to catch basin

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 15814

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Mostly leaves with some sandy soil
- o COC provided on 11/20/09

ADT : average daily traffic

C : commercial land use

CB : catch basin

COC : chain of custody

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

SEC : Seminole County

FIELD INFORMATION - SEMINOLE (SEC - CB - C - OUT - 2)

Sample identification

- o SEC – CB – C – OUT – 2

Jurisdiction

- o Seminole County

Land use zoning

- o Commercial

Location

- o 280 Wekiva Springs Rd.

Co-ordinates

- o 525383.10751 E and 1584036.53524 N

Date and time (with previous dry hours)

- o 7/14/2010 1:30 PM

Sampling personnel

- o Thomas Calhoun and Natalae Wilson

Description of catchment

Cover information

- o Medium tree canopy

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Commercial and services in surrounding area

Reclaimed water application

- o No

Basic description of soil type

- o Tavares – Millhopper fine sands, 0-5% slopes

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of catch basin

Type

- o Grate top inlet

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o N/A

Description of flow to catch basin

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 23614

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Mostly dry leaves
- o COC provided on 11/20/09

ADT : average daily traffic

C : commercial land use

CB : catch basin

COC : chain of custody

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

SEC : Seminole County

FIELD INFORMATION - SEMINOLE (SEC - CB - C - OUT - 3)

Sample identification

- o SEC – CB – C – OUT – 3

Jurisdiction

- o Seminole County

Land use zoning

- o Commercial

Location

- o 3640 Aloma Ave. and Tuskawilla Rd.

Co-ordinates

- o 570919.108753 E and 1557997.8008 N

Date and time (with previous dry hours)

- o 7/27/2010 3:30 PM

Sampling personnel

- o Thomas Calhoun and MJ Shelton

Description of catchment

Cover information

- o 0% canopy

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Commercial and services in surrounding area

Reclaimed water application

- o No

Basic description of soil type

- o Tavares – Millhopper fine sands,
0-5% slopes

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of catch basin

Type

- o Grate top inlet

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o Small amount of dry leaf litter and trash found

Condition of PM residuals

- o N/A

Dimensions and volume

- o N/A

Description of flow to catch basin

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 14158

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 11/20/09

ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SEC : Seminole County

FIELD INFORMATION - SEMINOLE (SEC - CB - H - OUT - 1)

Sample identification

- o SEC – CB – H – OUT – 1

Jurisdiction

- o Seminole County

Land use zoning

- o Highway

Location

- o S. Ronald Regan Blvd., 1330 S. CR 427

Co-ordinates

- o 544881.509999 E and 1580647.95101 N

Date and time (with previous dry hours)

- o 7/14/2010 12:00 PM

Sampling personnel

- o Thomas Calhoun and Natalae Wilson

Description of catchment

Cover information

- o Light canopy, asphalt roadway, good condition

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Commercial and services in surrounding area

Reclaimed water application

- o No

Basic description of soil type

- o Urban land

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of catch basin

Type

- o Curb inlet

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o N/A

Description of flow to catch basin

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 25901

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A

- o COC provided on 07.16.2010

ADT : average daily traffic

CB : catch basin

COC : chain of custody

H : highway land use

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

SEC : Seminole County

FIELD INFORMATION - SEMINOLE (SEC - CB - H - OUT - 2)

Sample identification

- o SEC – CB – H – OUT – 2

Jurisdiction

- o Seminole County

Land use zoning

- o Highway

Location

- o 2969 Red Bug Lake Rd.

Co-ordinates

- o 559955.156093 E and 1568084.25698 N

Date and time (with previous dry hours)

- o 7/14/2010 11:30 AM

Sampling personnel

- o Thomas Calhoun and Mari Camchong

Description of catchment

Cover information

- o Medium tree canopy, asphalt roadway, good condition

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Residential, medium density, 2-5 dwelling units/acre

Reclaimed water application

- o No

Basic description of soil type

- o Adamsville – Sparr fine sand

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of catch basin

Type

- o Grate top inlet

Approximate age

- o N/A

Previous cleaning activity

- o Cleaned once a year

Condition

- o N/A

Condition of PM residuals

- o Dry

Dimensions and volume

- o N/A

Description of flow to catch basin

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 20575

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Only leaves
- o COC provided on 11/20/09

ADT : average daily traffic

CB : catch basin

COC : chain of custody

H : highway land use

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

SEC : Seminole County

FIELD INFORMATION - SEMINOLE (SEC - CB - H - OUT - 3)

Sample identification

- o SEC – CB – H – OUT – 3

Jurisdiction

- o Seminole County

Land use zoning

- o Highway

Location

- o 2409 W. SR 434

Co-ordinates

- o 526154.125371 E and 1582925.70911 N

Date and time (with previous dry hours)

- o 7/14/2010 1:50 PM

Sampling personnel

- o Thomas Calhoun and Natlie Wilson

Description of catchment

Cover information

- o 0% canopy, asphalt roadway

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Commercial and services

Reclaimed water application

- o No

Basic description of soil type

- o Urban land

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of catch basin

Type

- o Curb inlet

Approximate age

- o N/A

Previous cleaning activity

- o Cleaned once a year

Condition

- o N/A

Condition of PM residuals

- o Dry

Dimensions and volume

- o N/A

Description of flow to catch basin

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 20575

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o N/A
- o COC provided on 11/20/09

ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SEC : Seminole County

FIELD INFORMATION - SEMINOLE (SEC - CB - R - OUT - 1)

Sample identification

- o SEC – CB – R – OUT – 1

Jurisdiction

- o Seminole County

Land use zoning

- o Residential

Location

- o 416 W. Crystal Dr.

Co-ordinates

- o 555293.017977 E and 1615735.253 N

Date and time (with previous dry hours)

- o 7/27/2010 11:56 AM

Sampling personnel

- o Thomas Calhoun and MJ Shelton

Description of catchment

Cover information

- o 55% canopy, asphalt roadway in good condition

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Residential, medium density, 2-5 dwelling units/acre

Reclaimed water application

- o No

Basic description of soil type

- o Urban land

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of catch basin

Type

- o Grate top inlet

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o Dry

Dimensions and volume

- o N/A

Description of flow to catch basin

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dry leaf litter
- o COC provided on 03/09/2010

ADT : average daily traffic

CB : catch basin

COC : chain of custody

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

SEC : Seminole County

FIELD INFORMATION - SEMINOLE (SEC - CB - R - OUT - 2)

Sample identification

- o SEC – CB – R – OUT – 2

Jurisdiction

- o Seminole County

Land use zoning

- o Residential

Location

- o Springs Landing Blvd., 501 Estates Pl.

Co-ordinates

- o 531997.076323 E and 1588217.40619 N

Date and time (with previous dry hours)

- o 3/8/2010 10:30 AM

Sampling personnel

- o Thomas Calhoun and Mario Camchong

Description of catchment

Cover information

- o 59% canopy, grassy ditch

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Adamsville-Sparr fine sand

Reclaimed water application

- o No

Basic description of soil type

- o Urban land

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of catch basin

Type

- o Ditch bottom inlet

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o Damp

Condition of PM residuals

- o N/A

Dimensions and volume

- o N/A

Description of flow to catch basin

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o 666

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Little leaf matter, damp soil and fresh cut grass blades
- o COC provided on 03/09/2010

ADT : average daily traffic

CB : catch basin

COC : chain of custody

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

SEC : Seminole County

FIELD INFORMATION - SEMINOLE (SEC - CB - R - OUT - 3)

Sample identification

- o SEC – CB – R – OUT – 3

Jurisdiction

- o Seminole County

Land use zoning

- o Residential

Location

- o Howell Harbor Dr.

Co-ordinates

- o 559123.124486 E and 1567487.37506 N

Date and time (with previous dry hours)

- o 3/8/2010 11:30 AM

Sampling personnel

- o Thomas Calhoun and Mario Camchong

Description of catchment

Cover information

- o 70% canopy, asphalt roadway in good condition

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Adamsville-Sparr fine sand

Reclaimed water application

- o No

Basic description of soil type

- o Tavares-millhopper fine sands, 0-5% slopes

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o N/A

Predominant PM, N, and P sources

- o N/A

Description of catch basin

Type

- o Curb inlet

Approximate age

- o N/A

Previous cleaning activity

- o N/A

Condition

- o N/A

Condition of PM residuals

- o N/A

Dimensions and volume

- o N/A

Description of flow to catch basin

- o N/A

Description of sampling method

- o N/A

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o N/A

Description of sample and COC

- o Dry leaves with some moist soil and grass collected
- o COC provided on 03/09/2010

ADT : average daily traffic

CB : catch basin

COC : chain of custody

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

SEC : Seminole County

ST.PETERSBURG/PINELLAS
COUNTY
(SPP)

FIELD INFORMATION - PINELLAS COUNTY (SPP - BMP - C - OUT - 1)

Sample identification

- o SPP - BMP - C - OUT – 1

Jurisdiction

- o Pinellas County

Land use zoning

- o Commercial

Location

- o South side of Anclote Blvd, W of Pinellas Avenue.

Co-ordinates

- o 82.751654 °W, 28.172696 °N

Date and time (with previous dry hours)

- o 07/20/2009 9:40
- o pdh ~ 12

Sampling personnel

- o Eric Fehrman/Chip Heintz

Description of catchment

Cover information

- o Very light canopy cover, 10% leafed out live oaks

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2% slope (cross slope from crown to edge of pavement), rural section, 12 foot lanes

Run-on conditions

- o From commercial restaurant with grass and driveways

Reclaimed water application

- o No

Basic description of soil type

- o Tavares/urban land

Drainage appurtenances in the area

- o Vegetated Swale

Significant features influencing PM, N, P load

- o Light commercial, no sedimentation, streets were clean except for some sand.

Predominant PM, N, and P sources

- o Leaves and grass

Description of BMP

Type

- o Vegetated Swale

Approximate age

- o ~15 years

Previous cleaning activity

- o Unknown

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o 12" culvert to 10' x 2' deep swale.

Description of flow to BMP

- o Online, asphalt pavement, good condition, approx. 15 years old.

Description of sampling method

- o Discreet sample, use of SS scoop, cleaned between samples

Traffic estimate (ADT)

- o 3,500

Approx. weight of recovered sample

- o 3 lbs

Description of sample and COC

- o Sand and dirt
- o COC provided on 07/22/09



ADT : average daily traffic

BMP : best management practice

C : commercial land use

COC : chain of custody

OUT : outside reclaimed water area

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

SPP : St. Petersburg/Pinellas County

FIELD INFORMATION - PINELLAS COUNTY (SPP - BMP - C - OUT - 4)

Sample identification

- o SPP - BMP - C - OUT – 4

Jurisdiction

- o Pinellas County

Land use zoning

- o Commercial

Location

- o SE side of NE Coachman, south of Belcher Rd. and north of Drew St.

Co-ordinates

- o 82.751071 "W, 27.968859 "N

Date and time (with previous dry hours)

- o 07/20/2009 12:20
- o pdh ~ 15

Sampling personnel

- o Eric Fehrman/Chip Heintz

Description of catchment

Cover information

- o Moderate canopy – 50% large healthy live oaks

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2% slope (cross slope from crown to edge of pavement), rural section, two 11 foot lanes that merge into one

Run-on conditions

- o From light commercial (dentist office) with grass and driveways

Reclaimed water application

- o No

Basic description of soil type

- o St. Augustine/urban land

Drainage appurtenances in the area

- o Vegetated Swale

Significant features influencing PM, N, P load

- o Commercial, no sedimentation, streets were clean except for some sand

Predominant PM, N, and P sources

- o Biogenic (grass cuttings, leaves)

Description of BMP

Type

- o Vegetated Swale – rural cross section on street

Approximate age

- o ~20 years

Previous cleaning activity

- o 10+ years

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o Swale approx. 10' wide x 3' deep

Description of flow to BMP

- o Online, asphalt pavement, good condition, approx. 20 years old.

Description of sampling method

- o Discreet sample, use of SS scoop, cleaned between samples

Traffic estimate (ADT)

- o 11,000

Approx. weight of recovered sample

- o 3 lbs

Description of sample and COC

- o Sand and dirt
- o COC provided 07/22/09
- o



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
OUT : outside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SPP : St. Petersburg/Pinellas County

FIELD INFORMATION - PINELLAS COUNTY (SPP - BMP - C - OUT - 7)

Sample identification

- o SPP - BMP - C - OUT – 7

Jurisdiction

- o Pinellas County

Land use zoning

- o Commercial

Location

- o W side of Haines Rd., south of 34th St.
N & north of 67th Ave. N.

Co-ordinates

- o 82.679748 "W, 27.832983 "N

Date and time (with previous dry hours)

- o 07/20/2009 13:59
- o pdh ~ 17

Sampling personnel

- o Eric Fehrman/Chip Heintz

Description of catchment

Cover information

- o Light canopy cover – 10-15% med size live oak. Asphalt pavement, good condition, approx. 15 years old.

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2% slope (cross slope from crown to edge of pavement), rural section, 12 foot lanes

Run-on conditions

- o From commercial properties with grass and driveways

Reclaimed water application

- o No

Basic description of soil type

- o Wabasso/urban land

Drainage appurtenances in the area

- o Vegetated Swale

Significant features influencing PM, N, P load

- o Commercial, no sedimentation, streets were clean except for some sand. Very light canopy cover

Predominant PM, N, and P sources

- o Biogenic (grass cuttings, leaves)

Description of BMP

Type

- o Vegetated Swale – rural cross section on street

Approximate age

- o ~15 years

Previous cleaning activity

- o Unknown

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o Swale approx. 15' wide x 4' deep

Description of flow to BMP

- o Online, asphalt pavement, good condition, approx. 15 years old.

Description of sampling method

- o Discreet sample, use of SS scoop, cleaned between samples

Traffic estimate (ADT)

- o 5,000

Approx. weight of recovered sample

- o 3 lbs

Description of sample and COC

- o Sand and dirt
- o COC provided on 07/22/09



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
OUT : outside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SPP : St. Petersburg/Pinellas County

FIELD INFORMATION - PINELLAS COUNTY (SPP - BMP - H - OUT - 3)

Sample identification

- o SPP - BMP - H - OUT – 3

Jurisdiction

- o Pinellas County

Land use zoning

- o Highway, Commercial

Location

- o West side of U.S. 19, S. of Curlew Rd.
(In front of McDonald's)

Co-ordinates

- o 82.738787 °W, 28.044561 °N

Date and time (with previous dry hours)

- o 07/20/2009 11:40
- o pdh ~ 14

Sampling personnel

- o Eric Fehrman/Chip Heintz

Description of catchment

Cover information

- o Minimal tree cover, less than 5%

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2% slope (cross slope from crown to edge of pavement), rural section, four 12 foot lanes

Run-on conditions

- o From highway use, commercial driveways

Reclaimed water application

- o No

Basic description of soil type

- o Immokalee/urban land

Drainage appurtenances in the area

- o Vegetated Swale

Significant features influencing PM, N, P load

- o Vegetated swale, no sedimentation, streets were clean except for some sand.

Predominant PM, N, and P sources

- o Biogenic (grass cuttings)

Description of BMP

Type

- o Vegetated Swale

Approximate age

- o ~10 years

Previous cleaning activity

- o 10 years

Condition

- o Culvert/swale in ex. Condition

Condition of PM residuals

- o Moist

Dimensions and volume

- o 15' wide x 3' deep

Description of flow to BMP

- o Online, asphalt pavement, fair condition, approx. 10 years old.

Description of sampling method

- o Discreet sample, use of SS scoop, cleaned between samples

Traffic estimate (ADT)

- o 38,500

Approx. weight of recovered sample

- o 3 lbs

Description of sample and COC

- o Sand and dirt
- o COC provided on 07/22/09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
OUT : outside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SPP : St. Petersburg/Pinellas County

FIELD INFORMATION - PINELLAS COUNTY (SPP - BMP - H - OUT - 5)

Sample identification

- o SPP - BMP - H - OUT – 5

Jurisdiction

- o Pinellas County

Land use zoning

- o Highway, Commercial

Location

- o West side of US 19, north of Tropic Hills Drive.

Co-ordinates

- o 82.730470 °W, 27.952178 °N

Date and time (with previous dry hours)

- o 07/20/2009 17:30
- o pdh ~ 19

Sampling personnel

- o Eric Fehrmann/Chip Heintz

Description of catchment

Cover information

- o Asphalt pavement, good condition, approx. 15 years old

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2% slope (cross slope from crown to edge of pavement), rural section, three 12 foot lanes plus 12 foot turn lane

Run-on conditions

- o From commercial property with grass and driveways and highway use.

Reclaimed water application

- o No

Basic description of soil type

- o Myakka/urban land

Drainage appurtenances in the area

- o Vegetated Swale

Significant features influencing PM, N, P load

- o Commercial. No sedimentation. Streets were clean except for some sand

Predominant PM, N, and P sources

- o Biogenic (grass cuttings)

Description of BMP

Type

- o Vegetated Swale – rural cross section on street

Approximate age

- o ~15 years

Previous cleaning activity

- o 3 years –inspected more often

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o 12' wide x 3.5' deep

Description of flow to BMP

- o Online, asphalt pavement, fair condition, approx. 15 years old.

Description of sampling method

- o Discreet sample, use of SS scoop, cleaned between samples

Traffic estimate (ADT)

- o 45,000

Approx. weight of recovered sample

- o 3 lbs

Description of sample and COC

- o Sand and dirt
- o COC provided on 07/22/09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
OUT : outside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SPP : St. Petersburg/Pinellas County

FIELD INFORMATION - PINELLAS COUNTY (SPP - BMP - H - OUT - 9)

Sample identification

- o SPP - BMP - H - OUT – 9

Jurisdiction

- o Pinellas County

Land use zoning

- o Highway, Commercial

Location

- o South side of S. Roosevelt Blvd ¼ mi W of on-ramp to I-275.

Co-ordinates

- o 82.663793 °W, 27.881695 °N

Date and time (with previous dry hours)

- o 09/08/2009 10:15
- o pdh ~ 48

Sampling personnel

- o Eric Fehrmann/Chip Heintz

Description of catchment

Cover information

- o No canopy cover. Asphalt pavement, good condition, approx. 15 years old

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2% slope (cross slope from crown to edge of pavement), rural section, three 12 foot lanes plus 12 foot safety lane one each side of the travel lanes.

Run-on conditions

- o From residential homes with grass and driveways

Reclaimed water application

- o No

Basic description of soil type

- o Pineda/urban land

Drainage appurtenances in the area

- o Vegetated Swale

Significant features influencing PM, N, P load

- o Commercial. No sedimentation. Streets were clean except for some sand

Predominant PM, N, and P sources

- o Biogenic (grass cuttings)

Description of BMP

Type

- o Vegetated Swale

Approximate age

- o ~15 years

Previous cleaning activity

- o 5+ years –inspected more often

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o 12' wide x 4' deep

Description of flow to BMP

- o Online, asphalt pavement, fair condition, approx. 15 years old.

Description of sampling method

- o Discreet sample, use of SS scoop, cleaned between samples

Traffic estimate (ADT)

- o 32,500

Approx. weight of recovered sample

- o 3 lbs

Description of sample and COC

- o Sand and dirt
- o COC provided on 07/22/09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
OUT : outside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SPP : St. Petersburg/Pinellas County

FIELD INFORMATION - PINELLAS COUNTY (SPP - BMP - R - OUT - 2)

Sample identification

- o SPP - BMP - R - OUT – 2

Jurisdiction

- o Pinellas County

Land use zoning

- o Residential

Location

- o S. side of W. Klosterman Rd., W of Breeze Circle.

Co-ordinates

- o 82.771589 "W, 28.122574 "N

Date and time (with previous dry hours)

- o 07/20/2009 10:00
- o pdh ~ 12

Sampling personnel

- o Eric Fehrman/Chip Heintz

Description of catchment

Cover information

- o Light canopy cover, 10% leafed out live oaks

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2% slope (cross slope from crown to edge of pavement), rural section, 12 foot lanes

Run-on conditions

- o From residential homes with grass and driveways

Reclaimed water application

- o No

Basic description of soil type

- o Astatula/urban land

Drainage appurtenances in the area

- o Vegetated Swale

Significant features influencing PM, N, P load

- o Residential, no sedimentation, streets were clean except for some sand. Almost no canopy cover

Predominant PM, N, and P sources

- o Biogenic (grass cuttings)

Description of BMP

Type

- o Vegetated Swale

Approximate age

- o ~15 years

Previous cleaning activity

- o 3 years

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o 12" culvert to 10' x 2' deep swale.

Description of flow to BMP

- o Online, asphalt pavement, good condition, approx. 15 years old.

Description of sampling method

- o Discreet sample, use of SS scoop, cleaned between samples

Traffic estimate (ADT)

- o 5000

Approx. weight of recovered sample

- o 3 lbs

Description of sample and COC

- o Sand and dirt
- o COC provided on 07/22/09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
OUT : outside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SPP : St. Petersburg/Pinellas County

FIELD INFORMATION - PINELLAS COUNTY (SPP - BMP - R - OUT - 6)

Sample identification

- o SPP - BMP - R - OUT – 6

Jurisdiction

- o Pinellas County

Land use zoning

- o Residential

Location

- o South side of Mehlenbacher Rd, E. of 15th St. NW.

Co-ordinates

- o 82.803688”W, 27.923841” N

Date and time (with previous dry hours)

- o 07/20/2009 13:20
- o pdh ~ 16

Sampling personnel

- o Eric Fehrman/Chip Heintz

Description of catchment

Cover information

- o Minimal canopy cover, few shrubs, palm tree in vicinity

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2% slope (cross slope from crown to edge of pavement), rural section, 10 foot lanes

Run-on conditions

- o From residential homes with grass and driveways

Reclaimed water application

- o No

Basic description of soil type

- o Myakka/urban land

Drainage appurtenances in the area

- o Vegetated Swale

Significant features influencing PM, N, P load

- o Residential, no sedimentation, streets were clean except for some sand. Light canopy cover.

Predominant PM, N, and P sources

- o Biogenic (grass cuttings)

Description of BMP

Type

- o Vegetated Swale – rural cross section on street

Approximate age

- o ~20+ years

Previous cleaning activity

- o 10+ years

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o Swale approx.. 10’ wide x 3’ deep

Description of flow to BMP

- o Online, asphalt pavement, good condition, approx. 20 years old.

Description of sampling method

- o Discreet sample, use of SS scoop, cleaned between samples

Traffic estimate (ADT)

- o 2500

Approx. weight of recovered sample

- o 3 lbs

Description of sample and COC

- o Sand and dirt
- o COC provided on 07/22/09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
OUT : outside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SPP : St. Petersburg/Pinellas County

FIELD INFORMATION - PINELLAS COUNTY (SPP - BMP - R - OUT - 8)

Sample identification

- o SPP - BMP - R - OUT – 8

Jurisdiction

- o Pinellas County

Land use zoning

- o Residential

Location

- o East side of 37th St N., north of of 56th Ave. N.

Co-ordinates

- o 82.684132 °W, 27.822586 °N

Date and time (with previous dry hours)

- o 07/20/2009 14:35
- o pdh ~ 17

Sampling personnel

- o Eric Fehrmann/Chip Heintz

Description of catchment

Cover information

- o Moderate canopy cover – 50% canopy of large live oaks. Asphalt pavement, fair condition, approx. 25 years old

Potential constraints to property access

- o No

Typical geometry and R/W section

- o <1% slope (cross slope from crown to edge of pavement), rural section, 10' lanes

Run-on conditions

- o From residential homes with grass and driveways

Reclaimed water application

- o No

Basic description of soil type

- o Myakka/urban land

Drainage appurtenances in the area

- o Vegetated Swale

Significant features influencing PM, N, P load

- o Residential, no sedimentation, streets were clean except for some sand.

Predominant PM, N, and P sources

- o Biogenic (grass cuttings)

Description of BMP

Type

- o Vegetated Swale

Approximate age

- o ~25 years

Previous cleaning activity

- o Unknown

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o Swale approx.. 8' wide x 2' deep

Description of flow to BMP

- o Online, asphalt pavement, good condition, approx. 25 years old.

Description of sampling method

- o Discreet sample, use of SS scoop, cleaned between samples

Traffic estimate (ADT)

- o 200

Approx. weight of recovered sample

- o 3 lbs

Description of sample and COC

- o Sand and dirt
- o COC provided on 07/22/09



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
OUT : outside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SPP : St. Petersburg/Pinellas County

FIELD INFORMATION - ST. PETE - PINELLAS COUNTY (SPP - CB - C - OUT - 3)

Sample identification

- o SPP – CB – C – OUT – 3

Jurisdiction

- o St. Pete – Pinellas County

Land use zoning

- o Commercial

Location

- o Alderman Road; East of Alt. 19 Intersection

Co-ordinates

- o NW corner: 82.771524"W, 28.093272"N; NE corner: 82.770243"W, 28.093280"N; SW corner: 82.771524"W, 28.093193"N; SE corner: 82.770243"W, 28.093192"N

Date and time (with previous dry hours)

- o 7/20/2009 10:20 AM
- o pdh ~ 12

Sampling personnel

- o Eric Fehrmann and Chip Heintz

Description of catchment

Cover information

- o 20% leafed out oak trees

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2% slope(from crown to edge of pavement)

Run-on conditions

- o Commercial businesses, restaurants, parking lots, and driveways

Reclaimed water application

- o No

Basic description of soil type

- o Astatula/Urban land

Drainage appurtenances in the area

- o Curb with drop inlets

Significant features influencing PM, N, P load

- o No sedimentation and basin is self-cleaning so material was collected from gutter and basin throat

Predominant PM, N, and P sources

- o Anthropogenic (vehicle dust) and biogenic (grass and leaves)

Description of catch basin

Type

- o Roadside drop inlet, self-cleaning box

Approximate age

- o 10 years

Previous cleaning activity

- o 5+ years

Condition

- o Excellent

Condition of PM residuals

- o Dry

Dimensions and volume

- o 8 ft (w) x 5 ft (d) x 6 ft (h)

Description of flow to catch basin

- o Online from asphalt paved

Description of sampling method

- o Discreet sample from SS scoop

Traffic estimate (ADT)

- o 7250

Approx. weight of recovered sample

- o 3 pounds

Description of sample and COC

- o Sand and dirt
- o COC provided on 07/22/09



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SPP : St. Pete – Pinellas County

FIELD INFORMATION - ST. PETE - PINELLAS COUNTY (SPP - CB - C - OUT - 6)

Sample identification

- o SPP – CB – C – OUT – 6

Jurisdiction

- o St. Pete – Pinellas County

Land use zoning

- o Commercial

Location

- o South Lincoln Avenue and Pinellas Street

Co-ordinates

- o NW corner: 82.785687°W, 27.951790°N; NE corner: 82.785653°W, 27.951790°N; SW corner: 82.785691°W, 27.951316°N; SE corner: 82.785650°W, 27.951316°N

Date and time (with previous dry hours)

- o 7/20/2009 12:40 PM
- o pdh ~ 15

Sampling personnel

- o Eric Fehrman and Chip Heintz

Description of catchment

Cover information

- o < 5% small oak trees

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2-3% slope (from crown to edge of pavement) and 12 ft lanes

Run-on conditions

- o Commercial parking lots

Reclaimed water application

- o No

Basic description of soil type

- o Astatula

Drainage appurtenances in the area

- o Drop inlets

Significant features influencing PM, N, P load

- o No sedimentation

Predominant PM, N, and P sources

- o Biogenic (grass and leaves)

Description of catch basin

Type

- o Curb and gutter self-cleaning

Approximate age

- o 25 years

Previous cleaning activity

- o 5 years

Condition

- o Good

Condition of PM residuals

- o Dry

Dimensions and volume

- o 6 ft (w) x 3 ft (d) x 5 ft (h)

Description of flow to catch basin

- o Online from asphalt paved

Description of sampling method

- o Discreet sample from SS scoop and basin is self-cleaning so material was collected from gutter and basin throat

Traffic estimate (ADT)

- o 300

Approx. weight of recovered sample

- o 3 pounds

Description of sample and COC

- o Sand and dirt
- o COC provided on 07/22/09



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SPP : St. Pete – Pinellas County

FIELD INFORMATION - ST. PETE - PINELLAS COUNTY (SPP - CB - C - OUT - 9)

Sample identification

- o SPP – CB – C – OUT – 9

Jurisdiction

- o St. Petersburg County

Land use zoning

- o Commercial

Location

- o SE corner of Central and 8th S/N

Co-ordinates

- o 27° 46' 15.6" N, 82° 38' 41.0" W

Date and time (with previous dry hours)

- o 5/25/2010 9:11 AM
- o pdh ~ N/A

Sampling personnel

- o Brice Van Allen

Description of catchment

Cover information

- o > 95% impervious

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o 60ft wide streets with on road parking

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o Sandy soils

Drainage appurtenances in the area

- o Curb and gutter with catchment basins

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catchment basin

Approximate age

- o > 50 years

Previous cleaning activity

- o N/A, est. > 10 years

Condition

- o N/A

Condition of PM residuals

- o Slightly moist

Dimensions and volume

- o N/A

Description of flow to catch basin

- o Flow to catch basin from city blocks and roads

Description of sampling method

- o Pre-cleaned stainless steel scoop

Traffic estimate (ADT)

- o N/A

Approx. weight of recovered sample

- o ~ 5 pounds

Description of sample and COC

- o Sand
- o COC provided on 07/22/09



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SPP : St. Pete – Pinellas County

FIELD INFORMATION - ST. PETE - PINELLAS COUNTY (SPP - CB - H - OUT - 2)

Sample identification

- o SPP – CB – H – OUT – 2

Jurisdiction

- o St. Pete – Pinellas County

Land use zoning

- o Residential single family

Location

- o Belcher Road N, north of Greenbriar Avenue

Co-ordinates

- o NW corner: 82.746988"W, 28.010969"N; NE corner: 82.746744"W, 28.010969"N; SW corner: 82.746756"W, 28.010271"N; SE corner: 82.76691"W, 28.010310"N

Date and time (with previous dry hours)

- o 7/20/2009 11:57 AM
- o pdh ~ 14

Sampling personnel

- o Eric Fehrman and Chip Heintz

Description of catchment

Cover information

- o 40% large oak trees

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2% slope(from crown to edge of pavement), curb and gutter, and 12 ft lanes

Run-on conditions

- o Residential homes with grass and driveways

Reclaimed water application

- o No

Basic description of soil type

- o Myakka/Urban land

Drainage appurtenances in the area

- o Curb and gutter with drop inlets

Significant features influencing PM, N, P load

- o No sedimentation and basin is self-cleaning so material was collected from gutter and basin throat

Predominant PM, N, and P sources

- o Biogenic (grass cuttings and leaves)

Description of catch basin

Type

- o Roadside drop inlet, self-cleaning box

Approximate age

- o 25 years

Previous cleaning activity

- o 10 years

Condition

- o Excellent

Condition of PM residuals

- o Dry

Dimensions and volume

- o 6 ft (w) x 4 ft (d) x 5 ft (h)

Description of flow to catch basin

- o Online from asphalt paved

Description of sampling method

- o Discreet sample from SS scoop

Traffic estimate (ADT)

- o 12000

Approx. weight of recovered sample

- o 3 pounds

Description of sample and COC

- o Sand and dirt
- o COC provided on 07/22/09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : Highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SPP : St. Pete – Pinellas County

FIELD INFORMATION - ST. PETE - PINELLAS COUNTY (SPP - CB - H - OUT - 5)

Sample identification

- o SPP – CB – H – OUT – 5

Jurisdiction

- o St. Pete – Pinellas County

Land use zoning

- o Light commercial

Location

- o 1030 Belcher Road S.

Co-ordinates

- o NW corner: 82.746171"W, 27.908424"N; NE corner: 82.746062"W, 27.908424"N; SW corner: 82.746171"W, 27.907858"N; SE corner: 82.746062"W, 27.907858"N

Date and time (with previous dry hours)

- o 7/20/2009 1:50 PM
- o pdh ~ 17

Sampling personnel

- o Eric Fehrman and Chip Heintz

Description of catchment

Cover information

- o < 5% small oak trees and asphalt

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2% slope (from crown to edge of pavement), curb and gutter, and 3-12 ft lanes

Run-on conditions

- o Commercial parking lots (100% impervious in area)

Reclaimed water application

- o No

Basic description of soil type

- o Eugallie/Urban land

Drainage appurtenances in the area

- o Curb and gutter with drop inlets

Significant features influencing PM, N, P load

- o No sedimentation

Predominant PM, N, and P sources

- o Biogenic (grass and leaves)

Description of catch basin

Type

- o Curb and gutter with drop inlet, self-cleaning box

Approximate age

- o 20 years

Previous cleaning activity

- o 5 years

Condition

- o Good

Condition of PM residuals

- o Dry

Dimensions and volume

- o 4 ft (w) x 3 ft (d) x 4 ft (h)

Description of flow to catch basin

- o Online from asphalt paved

Description of sampling method

- o Discreet sample from SS scoop and basin is self-cleaning so material was collected from gutter and basin throat

Traffic estimate (ADT)

- o 15000

Approx. weight of recovered sample

- o 3 pounds

Description of sample and COC

- o Sand and dirt
- o COC provided on 07/22/09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : Highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SPP : St. Pete – Pinellas County

FIELD INFORMATION - ST. PETE - PINELLAS COUNTY (SPP - CB - H - OUT - 8)

Sample identification

- o SPP – CB – H – OUT – 8

Jurisdiction

- o Pinellas County

Land use zoning

- o Commercial highway

Location

- o US 19 south of Belleair Road

Co-ordinates

- o 27° 54' 44.1" N, 82° 43' 47.2" W

Date and time (with previous dry hours)

- o 5/25/2010 11:12 AM
- o Potential rain within hours

Sampling personnel

- o Brice Van Allen

Description of catchment

Cover information

- o > 80% impervious

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o Wide ROW with multi-line highway

Run-on conditions

- o N/A

Reclaimed water application

- o No

Basic description of soil type

- o Sand

Drainage appurtenances in the area

- o Curb and gutter with catchment basins

Significant features influencing PM, N, P load

- o Heavy road traffic

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catchment basin

Approximate age

- o < 1 year

Previous cleaning activity

- o None

Condition

- o N/A

Condition of PM residuals

- o Dry

Dimensions and volume

- o N/A

Description of flow to catch basin

- o Flow to catch basin from highway

Description of sampling method

- o Pre-cleaned stainless steel scoop

Traffic estimate (ADT)

- o Extremely heavy traffic

Approx. weight of recovered sample

- o ~ 5 pounds

Description of sample and COC

- o Sandy
- o COC provided on 07/22/09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : Highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SPP : St. Pete – Pinellas County

FIELD INFORMATION - ST. PETE - PINELLAS COUNTY (SPP - CB - R - OUT - 1)

Sample identification

- o SPP – CB – R – OUT – 1

Jurisdiction

- o St. Pete – Pinellas County

Land use zoning

- o Residential single family

Location

- o 69th Street N, South of Curlew Rd

Co-ordinates

- o NW corner: 82.734841"W, 28.047228"N; NE corner: 82.734804"W, 28.047228"N; SW corner: 82.734806"W, 28.046165"N; SE corner: 82.734774"W, 28.046165"N

Date and time (with previous dry hours)

- o 7/20/2009 10:50 AM
- o pdh ~ 12

Sampling personnel

- o Eric Fehrmann and Chip Heintz

Description of catchment

Cover information

- o 20% leafed out oak trees

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 2% slope(from crown to edge of pavement), Miami curb and gutter, and 10 ft lanes

Run-on conditions

- o Residential homes with grass and driveways

Reclaimed water application

- o No

Basic description of soil type

- o Myakka/Urban land

Drainage appurtenances in the area

- o Drop inlets

Significant features influencing PM, N, P load

- o No sedimentation and basin is self-cleaning so material was collected from gutter and basin throat

Predominant PM, N, and P sources

- o Biogenic (grass cuttings and leaves)

Description of catch basin

Type

- o Roadside drop inlet, self-cleaning box

Approximate age

- o 20 years

Previous cleaning activity

- o 5 years

Condition

- o Good

Condition of PM residuals

- o Dry

Dimensions and volume

- o 6 ft (w) x 3.5 ft (d) x 4 ft (h)

Description of flow to catch basin

- o Online from asphalt paved

Description of sampling method

- o Discreet sample from SS scoop

Traffic estimate (ADT)

- o 1000

Approx. weight of recovered sample

- o 3 pounds

Description of sample and COC

- o Sand and dirt
- o COC provided on 07/22/09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SPP : St. Pete – Pinellas County

FIELD INFORMATION - ST. PETE - PINELLAS COUNTY (SPP - CB - R - OUT - 4)

Sample identification

- o SPP – CB – R – OUT – 4

Jurisdiction

- o St. Pete – Pinellas County

Land use zoning

- o Residential single family

Location

- o Intersection of Penny Lane and S. Duncan Avenue

Co-ordinates

- o NW corner: 82.766913"W, 27.946019"N; NE corner: 82.766877"W, 27.946019"N; SW corner: 82.766913"W, 27.945474"N; SE corner: 82.766877"W, 27.945474"N

Date and time (with previous dry hours)

- o 7/20/2009 12:55 PM
- o pdh ~ 16

Sampling personnel

- o Eric Fehrmann and Chip Heintz

Description of catchment

Cover information

- o 10% mature oak trees

Potential constraints to property access

- o No

Typical geometry and R/W section

- o < 1% slope(from crown to edge of pavement) and 10 ft lanes

Run-on conditions

- o Residential homes with grass and driveways

Reclaimed water application

- o No

Basic description of soil type

- o Myakka/Urban land

Drainage appurtenances in the area

- o Miami curb and gutter drop inlets

Significant features influencing PM, N, P load

- o No sedimentation

Predominant PM, N, and P sources

- o Biogenic (grass cuttings and leaves)

Description of catch basin

Type

- o Curb and gutter

Approximate age

- o 15-20 years

Previous cleaning activity

- o Unknown

Condition

- o Good

Condition of PM residuals

- o Dry

Dimensions and volume

- o 6 ft (w) x 3 ft (d) x 5 ft (h)

Description of flow to catch basin

- o Online from asphalt paved

Description of sampling method

- o Discreet sample from SS scoop and basin is self-cleaning so material was collected from gutter and basin throat

Traffic estimate (ADT)

- o 400

Approx. weight of recovered sample

- o 3 pounds

Description of sample and COC

- o Sand and dirt
- o COC provided on 07/22/09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SPP : St. Pete – Pinellas County

FIELD INFORMATION - ST. PETE - PINELLAS COUNTY (SPP - CB - R - OUT - 7)

Sample identification

- o SPP – CB – R – OUT – 1

Jurisdiction

- o St. Petersburg

Land use zoning

- o Majority of residential single family

Location

- o Between 5110 and 5120 15th S/N

Co-ordinates

- o 27° 49' 06.9" N, 82° 39' 14.9" W

Date and time (with previous dry hours)

- o 5/25/2010 9:43 AM
- o Few hours

Sampling personnel

- o Brice Van Allen

Description of catchment

Cover information

- o 50% impervious

Potential constraints to property access

- o N/A

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Residential streets

Reclaimed water application

- o No

Basic description of soil type

- o Sandy soil

Drainage appurtenances in the area

- o Curb and gutter with catchment basins

Significant features influencing PM, N, P load

- o Potential lawn fertilizers

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o CB-1

Approximate age

- o > 50 years

Previous cleaning activity

- o N/A, est. > 10 years

Condition

- o N/A

Condition of PM residuals

- o Slightly moist

Dimensions and volume

- o N/A

Description of flow to catch basin

- o N/A

Description of sampling method

- o Pre-cleaned stainless steel scoops

Traffic estimate (ADT)

- o 100

Approx. weight of recovered sample

- o ~ 5 pounds

Description of sample and COC

- o Sandy with organic debris
- o COC provided on 07/22/09



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SPP : St. Pete – Pinellas County

FIELD INFORMATION - PINELLAS (SPP - SS - C - OUT - 1)

Sample ID

- o SPP – SS – C – OUT – 1

Jurisdiction

- o Pinellas County

Land Use Zoning

- o Commercial

Location

- o US Alt 19 from Eastbay Drive to Bellair Road

Co-ordinates

- o Start: N27° 55' 00.7", W82° 47' 14.8";
End: N27° 55' 00.7", W82° 47' 14.8"

Date and Time (with Previous Dry Hours)

- o 05/25/2010 6:00 AM
- o ~12

Sampling Personnel

- o Brice Van Allen

Description of Catchment

Pavement Type

- o Asphalt typically 0.2% slope, good condition, 5 to 10 years old.

Typical Geometry and R/W Section

- o Curb and gutter section

Run-on Conditions

- o Continuous pavement and gutter

Drainage Appurtenances in the Catchment Area

- o Gutter and catch basins

Significant Features that may affect PM, N and P loadings

- o Typical commercial activities

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Mechanical sweeper

Dimensions of Area Cleaned

- o 1.5 miles

Previous Cleaning Activity

- o ~1 week since previous sweeping

Traffic Estimate (ADT)

- o 37000

Approx. Weight of Recovered Sample

- o ~3.6 tons

Description of Sample and COC

- o Sandy
- o COC provided on 05.27.2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
SPP : Pinellas County
SS : street sweeping

FIELD INFORMATION - PINELLAS (SPP - SS - C - OUT - 2)

Sample ID

- o SPP – SS – C – OUT – 2

Jurisdiction

- o Pinellas County

Land Use Zoning

- o Commercial

Location

- o US Alt 19 from 66th Avenue to Linda Street

Co-ordinates

- o Start: N27° 49' 57.0", W82° 47' 12.5";
End: N27° 51' 39.5", W82° 47' 12.8"

Date and Time (with Previous Dry Hours)

- o 05/25/2010 5:55 AM
- o ~12

Sampling Personnel

- o Brice Van Allen

Description of Catchment

Pavement Type

- o Asphalt typically 0.2% slope, good condition, 5 to 10 years old.

Typical Geometry and R/W Section

- o Curb and gutter section

Run-on Conditions

- o Continuous pavement and gutter

Drainage Appurtenances in the Catchment Area

- o Gutter and catch basins

Significant Features that may affect PM, N and P loadings

- o Typical commercial activities

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Mechanical sweeper

Dimensions of Area Cleaned

- o 2.0 miles

Previous Cleaning Activity

- o ~1 week since previous sweeping

Traffic Estimate (ADT)

- o 35,000

Approx. Weight of Recovered Sample

- o ~4.2 tons

Description of Sample and COC

- o Sandy
- o COC provided on 05.27.2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
SPP : Pinellas County
SS : street sweeping

FIELD INFORMATION - PINELLAS (SPP - SS - C - OUT - 3)

Sample ID

- o SPP – SS – C – OUT – 3

Jurisdiction

- o Pinellas County

Land Use Zoning

- o Commercial

Location

- o Area bounded by 4th S/N, 1st A/N, 8th S/N and 3rd A/S

Co-ordinates

- o NE: 27° 46' 19", 82° 38' 19" NW: 27° 46' 19", 82° 38' 41"; SW: 27° 46' 06", 82° 38' 41"; SE: 27° 46' 06", 82° 38' 19"

Date and Time (with Previous Dry Hours)

- o 05/25/2010 5:55 AM
- o ~12

Sampling Personnel

- o Brice Van Allen

Description of Catchment

Pavement Type

- o Asphalt typically 0.2% slope, good condition, 5 to 10 years old.

Typical Geometry and R/W Section

- o Curb and gutter section

Run-on Conditions

- o Continuous pavement and gutter

Drainage Appurtenances in the Catchment Area

- o Gutter and catch basins

Significant Features that may affect PM, N and P loadings

- o Typical commercial activities

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Vacuum sweeper

Dimensions of Area Cleaned

- o Approx. 60 acres commercial area downtown

Previous Cleaning Activity

- o ~24 hours ago since sweeping

Traffic Estimate (ADT)

- o 5,000

Approx. Weight of Recovered Sample

- o ~4.8 tons

Description of Sample and COC

- o Sandy
- o COC provided on 05.27.2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
SPP : Pinellas County
SS : street sweeping

FIELD INFORMATION - PINELLAS (SPP - SS - H - OUT - 1)

Sample ID

- o SPP – SS – H – OUT – 1

Jurisdiction

- o Pinellas County

Land Use Zoning

- o Highway

Location

- o N. Belcher Rd from Main St (580) to Sunset Point Rd. Swept west side of street only.

Co-ordinates

- o Northern boundary: 82° 44'49.179" W, 28 1'7.956"N
- o Southern boundary: 82° 44'43.091W, 27 59'22.423"N

Date and Time (with Previous Dry Hours)

- o 04/07/2009 11:15 AM
- o ~12

Sampling Personnel

- o Michele Bakacs

Description of Catchment

Pavement Type

- o Asphalt pavement, good condition, approximately 20 years old

Typical Geometry and R/W Section

- o 2% slope (cross slope from crown to edge of pavement), Type F curb, 12 foot lanes

Run-on Conditions

- o Run-on/off is mostly from residential front yards with grass and driveways. Some commercial parking lots at northern and southern boundaries.

Drainage Appurtenances in the Catchment Area

- o Storm drain inlets

Significant Features that may affect PM, N and P loadings

- o 4 lane turns to 6 lane roadway. Changes over at Countryside Blvd.

Predominant Source

- o Anthropogenic (traffic)

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Tennent Centurion, mechanical vacuum, approx. 5 years old

Dimensions of Area Cleaned

- o 3.2 miles x 36 feet

Previous Cleaning Activity

- o ~Swept one month earlier

Traffic Estimate (ADT)

- o 23,860 (Data from 2007)

Approx. Weight of Recovered Sample

- o ~3 lbs.

Description of Sample and COC

- o Dry leaves, sand and dirt
- o COC provided on 11.08.09



ADT : average daily traffic
COC : chain of custody
H : highway land use
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
SS : street sweeping
SPP : Pinellas County

FIELD INFORMATION - PINELLAS (SPP - SS - H - OUT - 2)

Sample ID

- o SPP – SS – H – OUT – 2

Jurisdiction

- o Pinellas County

Land Use Zoning

- o Highway

Location

- o 1-275 from 5th A/N to 22 A/n

Co-ordinates

- o Start: N27° 53' 37.2", W82° 43' 20.0";
End: N27° 56' 15.2", W82° 43' 49.1"

Date and Time (with Previous Dry Hours)

- o 05/25/2010 5:55 AM
- o ~12

Sampling Personnel

- o Brice Van Allen

Description of Catchment

Pavement Type

- o Asphalt consisting of elevated bridges in very good shape

Typical Geometry and R/W Section

- o Asphalt consisting of elevated bridges in very good shape

Run-on Conditions

- o Ditches and inlet structures

Drainage Appurtenances in the Catchment Area

- o Ditches and inlet structures

Significant Features that may affect PM, N and P loadings

- o Ditches and inlet structures

Predominant Source

- o Anthropogenic (traffic)

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Mechanical sweeper

Dimensions of Area Cleaned

- o 1 mile

Previous Cleaning Activity

- o ~1 week since previous sweeping

Traffic Estimate (ADT)

- o 111,000

Approx. Weight of Recovered Sample

- o ~3 tons

Description of Sample and COC

- o Sandy
- o COC provided on 05.27.2010



ADT : average daily traffic
COC : chain of custody
H : highway land use
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
SS : street sweeping
SPP : Pinellas County

FIELD INFORMATION - PINELLAS (SPP - SS - H - OUT - 3)

Sample ID

- o SPP – SS – H – OUT – 3

Jurisdiction

- o Pinellas County

Land Use Zoning

- o Highway

Location

- o US 19 from Belleair Drive to Ulmerton Road

Co-ordinates

- o Start: N27° 53' 37.2", W82° 43' 20.0";
End: N27° 56' 15.2", W82° 43' 49.1"

Date and Time (with Previous Dry Hours)

- o 05/26/2010 7:16 AM
- o ~12

Sampling Personnel

- o Brice Van Allen

Description of Catchment

Pavement Type

- o Asphalt, typically 0.2% slope, good condition, less than 1 year old

Typical Geometry and R/W Section

- o Curb and gutter section

Run-on Conditions

- o Continuous pavement and gutter

Drainage Appurtenances in the Catchment Area

- o Gutter and catch basins

Significant Features that may affect PM, N and P loadings

- o Typical commercial activities

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Mechanical sweeper

Dimensions of Area Cleaned

- o 3 miles

Previous Cleaning Activity

- o ~1 week since previous sweeping

Traffic Estimate (ADT)

- o 53,000

Approx. Weight of Recovered Sample

- o ~4.2 tons

Description of Sample and COC

- o Sandy
- o COC provided on 05.27.2010



ADT : average daily traffic
COC : chain of custody
H : highway land use
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
SS : street sweeping
SPP : Pinellas County

FIELD INFORMATION - PINELLAS (SPP - SS - R - OUT - 1)

Sample ID

- o SPP – SS – R – OUT – 1

Jurisdiction

- o Pinellas County

Land Use Zoning

- o Residential

Location

- o Southeast of Curlew Rd/US 19 intersection

Co-ordinates

- o NW corner- 82° 44'14.454"W, 28° 2'53.48"N
- o NE corner- 82° 43'48.228"W, 28° 2'40.512"N
- o SW corner- 82° 44'13.636"W, 28° 2'33.325"N
- o SE corner- 82° 43'48.158"W, 28° 2'33.337"N

Date and Time (with Previous Dry Hours)

- o 04/07/2009 10:35 AM
- o ~12

Sampling Personnel

- o Michele Bakacs

Description of Catchment

Pavement Type

- o Asphalt pavement, poor condition (cracks in pavement), approximately 30 years old

Typical Geometry and R/W Section

- o 2% slope (cross slope from crown to edge of pavement), valley curb, 10 foot lanes

Run-on Conditions

- o Residential front yards with grass and driveways

Drainage Appurtenances in the Catchment Area

- o Storm drain inlets

Significant Features that may affect PM, N and P loadings

- o Typical residential neighborhood. Lawns are well maintained. No sedimentation. Streets were clean except for leaves. Moderate canopy cover.

Predominant Source

- o Biogenic (leaves)

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Tennent Centurion, mechanical vacuum, approx. 5 years old

Dimensions of Area Cleaned

- o 16380x20 ft.

Previous Cleaning Activity

- o ~Swept 4 weeks earlier

Traffic Estimate (ADT)

- o 500

Approx. Weight of Recovered Sample

- o ~3 lbs.

Description of Sample and COC

- o Dry leaves, twigs, sand, and dirt
- o COC provided on 04.08.09



ADT : average daily traffic
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R : residential land use
R/W : right of way
SPP : Pinellas County
SS : street sweeping

FIELD INFORMATION - PINELLAS (SPP - SS - R - OUT - 2)

Sample ID

- o SPP – SS – R – OUT – 2

Jurisdiction

- o Pinellas County

Land Use Zoning

- o Residential

Location

- o Lakeview Rd south to Palmwood Dr.
Norwood Ave east to Woodcrest Ave.

Co-ordinates

- o NW corner- 82° 46'8.58"W, 27° 56'57.841"N
- o NE corner- 82° 45'51.872"W, 27° 56'57.659"N
- o SW corner- 82° 46'8.368W, 27° 56'44.658"N
- o SE corner- 82° 45'51.732W, 27° 56'44.56"N

Date and Time (with Previous Dry Hours)

- o 04/07/2009 12:15 AM
- o ~12

Sampling Personnel

- o Michele Bakacs

Description of Catchment

Pavement Type

- o Asphalt pavement, good condition, 40-50 years old.

Typical Geometry and R/W Section

- o 2% slope (cross slope from crown to edge of pavement), valley curb, 10 foot lanes

Run-on Conditions

- o Residential front yards with grass and driveways

Drainage Appurtenances in the Catchment Area

- o Storm drain inlets

Significant Features that may affect PM, N and P loadings

- o Typical residential neighborhood. Lawns are well maintained. No sedimentation. Streets were clean except for leaves. Moderate canopy cover.

Predominant Source

- o Biogenic (leaves)

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Tennent Centurion, mechanical vacuum, approx. 5 years old

Dimensions of Area Cleaned

- o 12,700 x 20 ft.

Previous Cleaning Activity

- o ~Swept 6 months earlier.

Traffic Estimate (ADT)

- o 500

Approx. Weight of Recovered Sample

- o ~4 lbs.

Description of Sample and COC

- o Dry leaves, twigs, sand, and dirt. More dirt than the other sites because streets have not been swept for months
- o COC provided on 05.27.2010



ADT : average daily traffic
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R : residential land use
R/W : right of way
SPP : Pinellas County
SS : street sweepings

FIELD INFORMATION - PINELLAS (SPP - SS - R - OUT - 3)

Sample ID

- o SPP – SS – R – OUT – 3

Jurisdiction

- o Pinellas County

Land Use Zoning

- o Residential

Location

- o US 19 from Belleair Drive to Ulmerton Road I-275 from 5th A/N to 22 A/n Area bounded by 54th A/N, 16st S/N, 46th A/N and Dr. MLK S/N

Co-ordinates

- o NE: 27° 49' 16", 82° 38' 49"
- o NW: 27° 49' 16", 82° 39' 18"
- o SW: 27° 48' 50", 82° 39' 18"
- o SE: 27° 48' 50", 82° 38' 49"

Date and Time (with Previous Dry Hours)

- o 05/25/2010 10:00 AM
- o ~12

Sampling Personnel

- o Brice Van Allen

Description of Catchment

Pavement Type

- o Asphalt pavement, good condition, 40-50 years old.

Typical Geometry and R/W Section

- o Asphalt, typically 0.2% slope, good condition, Resurfacing occurred in 1988, 1992, 1994, 2004, 2005, 2008 and 2009 for different parts of neighborhood. Age various from greater than 20 years to less than 2 years.

Run-on Conditions

- o Curb and gutter section

Drainage Appurtenances in the Catchment Area

- o Continuous pavement and gutter

Significant Features that may affect PM, N and P loadings

- o Gutter and catch basins

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Vacuum sweeper

Dimensions of Area Cleaned

- o 155 acre residential area

Previous Cleaning Activity

- o ~1 week since previous sweeping

Traffic Estimate (ADT)

- o 150

Approx. Weight of Recovered Sample

- o ~7.2 tons

Description of Sample and COC

- o Sandy with some organic content
- o COC provided on 05.27.2010



ADT : average daily traffic
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R : residential land use
R/W : right of way
SPP : Pinellas County
SS : street sweepings

STUART
(ST)

FIELD INFORMATION - STUART (ST - BMP - C - OUT - 1)

Sample identification

- o ST – BMP – C – OUT – 1

Jurisdiction

- o STUART

Land use zoning

- o Commercial

Location

- o 100 Colorado Ave.

Co-ordinates

- o LAT 27.199679/LON -80.252804

Date and time (with previous dry hours)

- o 10/21/2009 13:00 PM
- o pdh ~ 96

Sampling personnel

- o Bill Griffin

Description of catchment

Cover information

- o ~25% Oak and Palm tree cover and > 25% impervious surfaces, all in fair to good condition

Potential constraints to property access

- o Sample site is located in R/W at dead end of Colorado Ave. that is surrounded by commercial land uses

Typical geometry and R/W section

- o Asphalt, slightly raised center line sloping to curb and gutter system on east and west side of Colorado Ave.

Run-on conditions

- o Sheet flow to curb and gutter system from roadways along Colorado Ave., Seminole St. including on-street parking, sidewalks, and roof drains

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o Curb and gutter system, 17 curb inlets, 1,643 ft of 12" to 24" RCP, into double chamber baffle box unit

Significant features influencing PM, N, P load

- o Traffic, leaf litter, restaurant cleaning activities, commercial waste containers,

pressure cleaning washwater runoff from sidewalk areas, and roof drains.

Predominant PM, N, and P sources

- o Traffic, leaf litter, and pressure cleaning activities

Description of BMP

Type

- o Baffle box

Approximate age

- o ~10 years

Previous cleaning activity

- o 08/01/08

Condition

- o Floatables, sediments in submerged condition

Condition of PM residuals

- o Submerged

Dimensions and volume

- o Two chamber baffle box, each chamber 3ft(w)x5ft(l)x3ft(d). Capacity 3.3cuyds

Description of flow to BMP

- o Discharge from upstream system

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 1615

Approx. weight of recovered sample

- o ~3 kg

Description of sample and COC

- o Wet, fine to medium grain PM mixed with leaves, cigarette butts, etc.
- o COC provided on 10.21.09

ADT : average daily traffic

C : commercial land use

CB : catch basin

COC : chain of custody

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

ST : Stuart

FIELD INFORMATION - STUART (ST - BMP - C - OUT - 2)

Sample identification

- o ST – BMP – C – OUT – 2

Jurisdiction

- o STUART

Land use zoning

- o Commercial

Location

- o 100 Colorado Ave.

Co-ordinates

- o LAT 27.199679/LON -80.252804

Date and time (with previous dry hours)

- o 4/8/2010 13:00 PM
- o pdh ~ 240

Sampling personnel

- o Bill Griffin

Description of catchment

Cover information

- o ~25% Oak and Palm tree cover and > 25% impervious surfaces, all in fair to good condition

Potential constraints to property access

- o Sample site is located in R/W at dead end of Colorado Ave. that is surrounded by commercial land uses

Typical geometry and R/W section

- o Asphalt, slightly raised center line sloping to curb and gutter system on east and west side of Colorado Ave.

Run-on conditions

- o Sheet flow to curb and gutter system from roadways along Colorado Ave., Seminole St. including on-street parking, sidewalks, and roof drains

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o Curb and gutter system, 17 curb inlets, 1,643 ft of 12" to 24" RCP, into double chamber baffle box unit

Significant features influencing PM, N, P load

- o Traffic, leaf litter, restaurant cleaning activities, commercial waste containers,

pressure cleaning washwater runoff from sidewalk areas, and roof drains.

Predominant PM, N, and P sources

- o Traffic, leaf litter, and pressure cleaning activities

Description of BMP

Type

- o Baffle box

Approximate age

- o ~10 years

Previous cleaning activity

- o 10/21/09

Condition

- o Floatables, sediments in submerged condition

Condition of PM residuals

- o Submerged

Dimensions and volume

- o Two chamber baffle box, each chamber 3ft(w)x5ft(l)x3ft(d). Capacity 3.3cuyds

Description of flow to BMP

- o Discharge from upstream system

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 1615

Approx. weight of recovered sample

- o ~2.3 kg

Description of sample and COC

- o Wet, fine to medium grain PM mixed with leaves, cigarette butts, etc.
- o COC provided on 4.9.10

ADT : average daily traffic

C : commercial land use

CB : catch basin

COC : chain of custody

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

ST : Stuart

FIELD INFORMATION - STUART (ST - BMP - C - OUT - 3)

Sample identification

- o ST – BMP – C – OUT – 1

Jurisdiction

- o STUART

Land use zoning

- o Commercial

Location

- o 100 Colorado Ave.

Co-ordinates

- o LAT 27.199679/LON -80.252804

Date and time (with previous dry hours)

- o 5/24/2010 13:00 PM
- o pdh ~ 168

Sampling personnel

- o Bill Griffin

Description of catchment

Cover information

- o ~25% Oak and Palm tree cover and > 25% impervious surfaces, all in fair to good condition

Potential constraints to property access

- o Sample site is located in R/W at dead end of Colorado Ave. that is surrounded by commercial land uses

Typical geometry and R/W section

- o Asphalt, slightly raised center line sloping to curb and gutter system on east and west side of Colorado Ave.

Run-on conditions

- o Sheet flow to curb and gutter system from roadways along Colorado Ave., Seminole St. including on-street parking, sidewalks, and roof drains

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o Curb and gutter system, 17 curb inlets, 1,643 ft of 12" to 24" RCP, into double chamber baffle box unit

Significant features influencing PM, N, P load

- o Traffic, leaf litter, restaurant cleaning activities, commercial waste containers,

pressure cleaning washwater runoff from sidewalk areas, and roof drains.

Predominant PM, N, and P sources

- o Traffic, leaf litter, and pressure cleaning activities

Description of BMP

Type

- o Baffle box

Approximate age

- o ~10 years

Previous cleaning activity

- o 04/08/10

Condition

- o Floatables, sediments in submerged condition

Condition of PM residuals

- o Submerged

Dimensions and volume

- o Two chamber baffle box, each chamber 3ft(w)x5ft(l)x3ft(d). Capacity 3.3cuyds

Description of flow to BMP

- o Discharge from upstream system

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 1615

Approx. weight of recovered sample

- o ~2.8 kg

Description of sample and COC

- o Wet, fine to medium grain PM mixed with leaves, cigarette butts, etc.
- o COC provided on 5.24.2010

ADT : average daily traffic

C : commercial land use

CB : catch basin

COC : chain of custody

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

ST : Stuart

FIELD INFORMATION - STUART (ST - BMP - H - OUT - 1)

Sample identification

- o ST – BMP – H – OUT – 1

Jurisdiction

- o STUART

Land use zoning

- o Highway

Location

- o 221 SE Ocean

Co-ordinates

- o LAT 27.199166/LON -80.249368

Date and time (with previous dry hours)

- o 07/07/2009 11:25 PM
- o pdh ~ 72

Sampling personnel

- o Bill Griffin

Description of catchment

Cover information

- o < 15% Oak, Pine, and Banyan tree cover and > 15% impervious surfaces, all in good condition. Relatively flat conditions

Potential constraints to property access

- o Sample site BMP is in R/W that is surrounded by commercial land uses

Typical geometry and R/W section

- o Asphalt, slightly raised center line sloping to curb and gutter system on east and west side of Florida Ave/SE Ocean Blvd, and includes run-on from sidewalks and private property. Drainage area is 0.95 acres

Run-on conditions

- o Sheet flow to curb and gutter system from roadway, sidewalks (including grass neutral strip) and private property

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o Curb and gutter system, 3 curb inlets, 700 ft of 8" CPVC to 14" PVC, through CDS unit

Significant features influencing PM, N, P load

- o Traffic, on-street parking, roof drains, leaf litter, grass clippings, fertilizer

Predominant PM, N, and P sources

- o Traffic

Description of BMP

Type

- o Continuous Deflective Separation (CDS) unit

Approximate age

- o ~2 years

Previous cleaning activity

- o 08/01/08

Condition

- o CDS in good condition. Predominately wet sediment 2 to 3 inch deep on floor of unit.

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 4ft diameter x 4ft height. Capacity is 1.9 cu yds

Description of flow to BMP

- o Discharge from upstream system

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 8000

Approx. weight of recovered sample

- o ~4 kg

Description of sample and COC

- o Predominately wet, dark colored PM.
- o COC provided on 07.07.09

ADT : average daily traffic

BMP : best management practice

COC : chain of custody

H : highway land use

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

ST : Stuart

FIELD INFORMATION - STUART (ST - BMP - H - OUT - 2)

Sample identification

- o ST – BMP – H – OUT – 2

Jurisdiction

- o STUART

Land use zoning

- o Highway

Location

- o 221 SE Ocean

Co-ordinates

- o LAT 27.199166/LON -80.249368

Date and time (with previous dry hours)

- o 07/07/2009 11:25 PM
- o pdh ~ 72

Sampling personnel

- o Bill Griffin

Description of catchment

Cover information

- o < 15% Oak, Pine, and Banyan tree cover and > 15% impervious surfaces, all in good condition. Relatively flat conditions

Potential constraints to property access

- o Sample site BMP is in R/W that is surrounded by commercial land uses

Typical geometry and R/W section

- o Asphalt, slightly raised center line sloping to curb and gutter system on east and west side of Florida Ave/SE Ocean Blvd, and includes run-on from sidewalks and private property. Drainage area is 0.95 acres

Run-on conditions

- o Sheet flow to curb and gutter system from roadway, sidewalks (including grass neutral strip) and private property

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o Curb and gutter system, 3 curb inlets, 700 ft of 8" CPVC to 14" PVC, through CDS unit

Significant features influencing PM, N, P load

- o Traffic, on-street parking, roof drains, leaf litter, grass clippings, fertilizer

Predominant PM, N, and P sources

- o Traffic

Description of BMP

Type

- o Continuous Deflective Separation (CDS) unit

Approximate age

- o ~2 years

Previous cleaning activity

- o 07/07/09

Condition

- o CDS in good condition. Predominately wet sediment 2 to 3 inch deep on floor of unit.

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 4ft diameter x 4ft height. Capacity is 1.9 cu yds

Description of flow to BMP

- o Discharge from upstream system

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 8000

Approx. weight of recovered sample

- o ~3.8 kg

Description of sample and COC

- o Predominately wet, dark colored PM.
- o COC provided on 04.02.2010

ADT : average daily traffic

BMP : best management practice

COC : chain of custody

H : highway land use

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

ST : Stuart

FIELD INFORMATION - STUART (ST - BMP - H - OUT - 2)

Sample identification

- o ST – BMP – H – OUT – 2

Jurisdiction

- o STUART

Land use zoning

- o Highway

Location

- o 221 SE Ocean

Co-ordinates

- o LAT 27.199166/LON -80.249368

Date and time (with previous dry hours)

- o 06/03/2010 11:40 AM
- o pdh ~ 24

Sampling personnel

- o Bill Griffin

Description of catchment

Cover information

- o < 15% Oak, Pine, and Banyan tree cover and > 15% impervious surfaces, all in good condition. Relatively flat conditions

Potential constraints to property access

- o Sample site BMP is in R/W that is surrounded by commercial land uses

Typical geometry and R/W section

- o Asphalt, slightly raised center line sloping to curb and gutter system on east and west side of Florida Ave/SE Ocean Blvd, and includes run-on from sidewalks and private property. Drainage area is 0.95 acres

Run-on conditions

- o Sheet flow to curb and gutter system from roadway, sidewalks (including grass neutral strip) and private property

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o Curb and gutter system, 3 curb inlets, 700 ft of 8" CPVC to 14" PVC, through CDS unit

Significant features influencing PM, N, P load

- o Traffic, on-street parking, roof drains, leaf litter, grass clippings, fertilizer

Predominant PM, N, and P sources

- o Traffic

Description of BMP

Type

- o Continuous Deflective Separation (CDS) unit

Approximate age

- o ~2 years

Previous cleaning activity

- o April 1, 2010

Condition

- o CDS in good condition. Predominately wet sediment 2 to 3 inch deep on floor of unit.

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 4ft diameter x 4ft height. Capacity is 1.9 cu yds

Description of flow to BMP

- o Discharge from upstream system

Description of sampling method

- o B3.6.1.1 of QAPP

Traffic estimate (ADT)

- o 8000

Approx. weight of recovered sample

- o ~4.6 kg

Description of sample and COC

- o Predominately wet, dark colored PM.
- o COC provided on 06.03.2010

ADT : average daily traffic

BMP : best management practice

COC : chain of custody

H : highway land use

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

ST : Stuart

FIELD INFORMATION - STUART (ST - BMP - R - OUT - 1)

Sample identification

- o ST – BMP – R – OUT – 1

Jurisdiction

- o STUART

Land use zoning

- o Residential

Location

- o 513 SW N. Riverpoint Rd/Palm City Rd.

Co-ordinates

- o LAT 27.186264/LON -80.258917

Date and time (with previous dry hours)

- o 06/24/2009 10:50 AM
- o pdh ~ 24

Sampling personnel

- o Bill Griffin

Description of catchment

Cover information

- o 15% Oak tree cover and < 15% impervious surfaces, all in good condition.

Potential constraints to property access

- o Baffle box is located in R/W at northwest corner of SW North Riverpoint that is surrounded by private property

Typical geometry and R/W section

- o Asphalt, slightly raised center line sloping toward edge of roadway within the subdivision

Run-on conditions

- o Flow from residential front yards to along edge of roadway into drainage system to St. Lucie River

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o 7 catch basins, 576 ft of 15" CMP, to single chamber baffle box

Significant features influencing PM, N, P load

- o Leaf litter, grass clippings, fertilizer, possible septic tank drain infiltration

Predominant PM, N, and P sources

- o Predominant sources are leaf litter, grass clippings, and sediment

Description of BMP

Type

- o Baffle Box

Approximate age

- o ~10 years

Previous cleaning activity

- o 07/10/08

Condition

- o BMP in good condition. Approx. 6-10 in sediment mixed with leaf litter in sediment chamber.

Condition of PM residuals

- o Moist

Dimensions and volume

- o Single chamber baffle box 3ft(w)x5ft(l)x3(d) capacity 1.7 cu yds

Description of flow to BMP

- o Discharge from upstream system into baffle box. Baffle box also receives direct runoff through grated opening.

Description of sampling method

- o B3.6.1.2 of QAPP

Traffic estimate (ADT)

- o 40-50

Approx. weight of recovered sample

- o ~3.2 kg

Description of sample and COC

- o Mixture of sediment and leaf
- o COC provided on 06.24.2009

ADT : average daily traffic

BMP : best management practice

COC : chain of custody

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R : residential land use

R/W : right of way

ST : Stuart

FIELD INFORMATION - STUART (ST - BMP - R - OUT - 2)

Sample identification

- o ST – BMP – R – OUT – 2

Jurisdiction

- o STUART

Land use zoning

- o Residential

Location

- o 513 SW N. Riverpoint Rd/Palm City Rd.

Co-ordinates

- o LAT 27.186264/LON -80.258917

Date and time (with previous dry hours)

- o 03/24/2010 9:05 AM
- o pdh ~ 24

Sampling personnel

- o Bill Griffin

Description of catchment

Cover information

- o 15% Oak tree cover and < 15% impervious surfaces, all in good condition.

Potential constraints to property access

- o Baffle box is located in R/W at northwest corner of SW North Riverpoint that is surrounded by private property

Typical geometry and R/W section

- o Asphalt, slightly raised center line sloping toward edge of roadway within the subdivision

Run-on conditions

- o Flow from residential front yards to along edge of roadway into drainage system to St. Lucie River

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o 7 catch basins, 576 ft of 15" CMP, to single chamber baffle box

Significant features influencing PM, N, P load

- o Leaf litter, grass clippings, fertilizer, possible septic tank drain infiltration

Predominant PM, N, and P sources

- o Predominant sources are leaf litter, grass clippings, and sediment

Description of BMP

Type

- o Baffle Box

Approximate age

- o ~10 years

Previous cleaning activity

- o 06/24/09

Condition

- o BMP in good condition. Approx. 6-10 in sediment mixed with leaf litter in sediment chamber.

Condition of PM residuals

- o Moist

Dimensions and volume

- o Single chamber baffle box 3ft(w)x5ft(l)x3(d) capacity 1.7 cu yds

Description of flow to BMP

- o Discharge from upstream system into baffle box. Baffle box also receives direct runoff through grated opening.

Description of sampling method

- o B3.6.1.2 of QAPP

Traffic estimate (ADT)

- o 40-50

Approx. weight of recovered sample

- o ~3.2 kg

Description of sample and COC

- o Mixture of sediment and leaf
- o COC provided on 03.24.2010

ADT : average daily traffic

BMP : best management practice

COC : chain of custody

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R : residential land use

R/W : right of way

ST : Stuart

FIELD INFORMATION - STUART (ST - BMP - R - OUT - 3)

Sample identification

- o ST – BMP – R – OUT – 3

Jurisdiction

- o STUART

Land use zoning

- o Residential

Location

- o 513 SW N. Riverpoint Rd/Palm City Rd.

Co-ordinates

- o LAT 27.186264/LON -80.258917

Date and time (with previous dry hours)

- o 05/26/2010 09:35 AM
- o pdh ~ 216

Sampling personnel

- o Bill Griffin

Description of catchment

Cover information

- o 15% Oak tree cover and < 15% impervious surfaces, all in good condition.

Potential constraints to property access

- o Baffle box is located in R/W at northwest corner of SW North Riverpoint that is surrounded by private property

Typical geometry and R/W section

- o Asphalt, slightly raised center line sloping toward edge of roadway within the subdivision

Run-on conditions

- o Flow from residential front yards to along edge of roadway into drainage system to St. Lucie River

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o 7 catch basins, 576 ft of 15" CMP, to single chamber baffle box

Significant features influencing PM, N, P load

- o Leaf litter, grass clippings, fertilizer, possible septic tank drain infiltration

Predominant PM, N, and P sources

- o Predominant sources are leaf litter, grass clippings, and sediment

Description of BMP

Type

- o Baffle Box

Approximate age

- o ~10 years

Previous cleaning activity

- o 03/24/10

Condition

- o BMP in good condition. Approx. 6-10 in sediment mixed with leaf litter in sediment chamber.

Condition of PM residuals

- o Moist

Dimensions and volume

- o Single chamber baffle box 3ft(w)x5ft(l)x3(d) capacity 1.7 cu yds

Description of flow to BMP

- o Discharge from upstream system into baffle box. Baffle box also receives direct runoff through grated opening.

Description of sampling method

- o B3.6.1.2 of QAPP

Traffic estimate (ADT)

- o 40-50

Approx. weight of recovered sample

- o ~3.2 kg

Description of sample and COC

- o Mixture of sediment and leaf
- o COC provided on 05.26.2010

ADT : average daily traffic

BMP : best management practice

COC : chain of custody

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R : residential land use

R/W : right of way

ST : Stuart

FIELD INFORMATION - STUART (ST - CB - C - OUT - 1)

Sample identification

- o ST – CB – C – OUT – 1

Jurisdiction

- o Stuart

Land use zoning

- o Commercial

Location

- o 106 S Colorado Avenue / SE Seminole Street

Co-ordinates

- o 27.199679 N and 80.252804 W

Date and time (with previous dry hours)

- o 10/21/2009 10:15 AM
- o pdh~96

Sampling personnel

- o Bill Griffin

Description of catchment

Cover information

- o 25% Oak and palm tree cover and 25% impervious surfaces

Potential constraints to property access

- o Yes

Typical geometry and R/W section

- o Slightly raised center line sloping to curb and gutter system

Run-on conditions

- o Roadways, sidewalks, and roof drains

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o Curb and gutter to 17 curb inlets into double chamber baffle box unit

Significant features influencing PM, N, P load

- o Traffic, leaf litter, restaurant cleaning, commercial waste containers, pressure cleaning washwater runoff from sidewalk areas, and roof drains

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Manhole

Approximate age

- o 25 years

Previous cleaning activity

- o 4/11/2006

Condition

- o Good

Condition of PM residuals

- o Partially submerged condition

Dimensions and volume

- o Manhole: 48" (diameter) x 4' (deep)
- o Sediment Capture: 2" invert while able to pile up 8" on sidewall

Description of flow to catch basin

- o Two upstream curb inlets and one parking lot drain

Description of sampling method

- o 12-15 grab samples placed into pre-cleaned stainless steel

Traffic estimate (ADT)

- o 1429

Approx. weight of recovered sample

- o 4.3 Kg

Description of sample and COC

- o Moist, light to dark, medium to large grain PM
- o COC provided on 10.21.2009



ADT : average daily traffic

C : commercial land use

CB : catch basin

COC : chain of custody

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

ST : Stuart

FIELD INFORMATION - STUART (ST - CB - C - OUT - 2)

Sample identification

- o ST – CB – C – OUT – 2

Jurisdiction

- o Stuart

Land use zoning

- o Commercial

Location

- o 106 S Colorado Avenue / SE Seminole Street

Co-ordinates

- o 27.199679 N and 80.252804 W

Date and time (with previous dry hours)

- o 4/8/2010 6:25 AM
- o pdh~240

Sampling personnel

- o Bill Griffin

Description of catchment

Cover information

- o 25% Oak and palm tree cover and 25% impervious surfaces

Potential constraints to property access

- o Yes

Typical geometry and R/W section

- o Slightly raised center line sloping to curb and gutter system

Run-on conditions

- o Roadways, sidewalks, and roof drains

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o Curb and gutter to 17 curb inlets into double chamber baffle box unit

Significant features influencing PM, N, P load

- o Traffic, leaf litter, restaurant cleaning, commercial waste containers, pressure cleaning washwater runoff from sidewalk areas, and roof drains

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Manhole

Approximate age

- o 25 years

Previous cleaning activity

- o 4/11/2006

Condition

- o Good

Condition of PM residuals

- o Partially submerged condition

Dimensions and volume

- o Manhole: 48" (diameter) x 4' (deep)
- Sediment Capture: 2" invert while able to pile up 8" on sidewall

Description of flow to catch basin

- o Two upstream curb inlets and one parking lot drain

Description of sampling method

- o 12-15 grab samples placed into pre-cleaned stainless steel

Traffic estimate (ADT)

- o 1429

Approx. weight of recovered sample

- o 4.5 Kg

Description of sample and COC

- o Moist, light to dark, medium to large grain PM
- o COC provided on 4.8.2010



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
ST : Stuart

FIELD INFORMATION - STUART (ST - CB - C - OUT - 3)

Sample identification

- o ST – CB – C – OUT – 3

Jurisdiction

- o Stuart

Land use zoning

- o Commercial

Location

- o 106 S Colorado Avenue / SE Seminole Street

Co-ordinates

- o 27.199679 N and 80.252804 W

Date and time (with previous dry hours)

- o 5/24/2010 8:00 AM
- o pdh~240

Sampling personnel

- o Bill Griffin

Description of catchment

Cover information

- o 25% Oak and palm tree cover and 25% impervious surfaces

Potential constraints to property access

- o Yes

Typical geometry and R/W section

- o Slightly raised center line sloping to curb and gutter system

Run-on conditions

- o Roadways, sidewalks, and roof drains

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o Curb and gutter to 17 curb inlets into double chamber baffle box unit

Significant features influencing PM, N, P load

- o Traffic, leaf litter, restaurant cleaning, commercial waste containers, pressure cleaning washwater runoff from sidewalk areas, and roof drains

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Manhole

Approximate age

- o 25 years

Previous cleaning activity

- o 4/11/2006

Condition

- o Good

Condition of PM residuals

- o Partially submerged condition

Dimensions and volume

- o Manhole: 48" (diameter) x 4' (deep)
- o Sediment Capture: 2" invert while able to pile up 8" on sidewall

Description of flow to catch basin

- o Two upstream curb inlets and one parking lot drain

Description of sampling method

- o 12-15 grab samples placed into pre-cleaned stainless steel

Traffic estimate (ADT)

- o 1429

Approx. weight of recovered sample

- o 4.3 Kg

Description of sample and COC

- o Moist, light to dark, medium to large grain PM
- o COC provided on 5.24.2010



ADT : average daily traffic

C : commercial land use

CB : catch basin

COC : chain of custody

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

ST : Stuart

FIELD INFORMATION - STUART (ST- CB - H - OUT - 1)

Sample identification

- o ST – CB – H – OUT – 1

Jurisdiction

- o Stuart

Land use zoning

- o Highway

Location

- o 227 SE Ocean Blvd. and Florida Ave.

Co-ordinates

- o 27.197684 N and 80.249349 W

Date and time (with previous dry hours)

- o 7/7/2009 8:07 AM
- o pdh~72

Sampling personnel

- o Bill Griffin

Description of catchment

Cover information

- o < 15% Oak, pine, banyan tree cover and
- o > 15% impervious surfaces

Potential constraints to property access

- o Yes

Typical geometry and R/W section

- o Asphalt slightly raised center line sloping to curb and gutter system

Run-on conditions

- o Flow from to curb and gutter system from roadway, sidewalks and private property

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o Curb and gutter system, 3 curb inlets

Significant features influencing PM, N, P load

- o Traffic, on-street parking, roof drains, leaf litter, grass clippings, fertilizer

Predominant PM, N, and P sources

- o Anthropogenic (traffic)

Description of catch basin

Type

- o Catch basin

Approximate age

- o 20 years

Previous cleaning activity

- o Cleaned September, 2007

Condition

- o Fair condition, live tree roots in bottom of CB

Condition of PM residuals

- o Moist

Dimensions and volume

- o 2 ft x 2 ft x 3 ft (d), Volume: 6ft³

Description of flow to catch basin

- o Sheet flow to curb and gutter

Description of sampling method

- o B3.6.1.1 of QAPP, hardened steel shovel and stainless steel scoop

Traffic estimate (ADT)

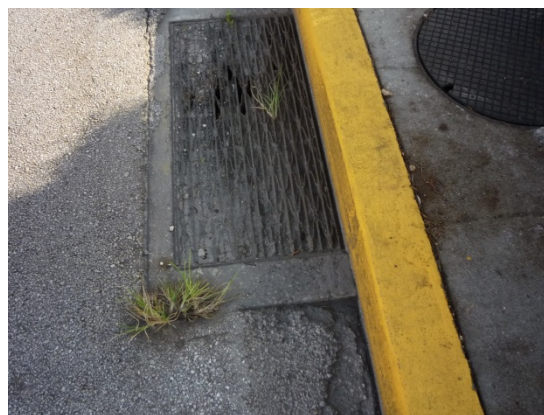
- o 8000

Approx. weight of recovered sample

- o 1.8 Kg

Description of sample and COC

- o Dry, fine, peat type soils consistency
- o COC provided on 07.07.09



ADT : average daily traffic

CB : catch basin

COC : chain of custody

H : highway land use

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

ST : Stuart

FIELD INFORMATION - STUART (ST - CB - H - OUT - 2)

Sample identification

- o ST – CB – H – OUT – 2

Jurisdiction

- o Stuart

Land use zoning

- o Highway

Location

- o 227 SE Ocean Blvd. and Florida Ave.

Co-ordinates

- o 27.197684 N and 80.249349 W

Date and time (with previous dry hours)

- o 4/1/2010 8:20 AM
- o pdh~48

Sampling personnel

- o Bill Griffin

Description of catchment

Cover information

- o < 15% Oak, pine, banyan tree cover and
- o > 15% impervious surfaces

Potential constraints to property access

- o Yes

Typical geometry and R/W section

- o Asphalt slightly raised center line sloping to curb and gutter system

Run-on conditions

- o Flow from to curb and gutter system from roadway, sidewalks and private property

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o Curb and gutter system, 3 curb inlets

Significant features influencing PM, N, P load

- o Traffic, on-street parking, roof drains, leaf litter, grass clippings, fertilizer

Predominant PM, N, and P sources

- o Anthropogenic (traffic)

Description of catch basin

Type

- o Catch basin

Approximate age

- o 20 years

Previous cleaning activity

- o Cleaned July, 2009

Condition

- o Fair condition, live tree roots in bottom of CB

Condition of PM residuals

- o Moist

Dimensions and volume

- o 2 ft x 2 ft x 3 ft (d), Volume: 12ft³

Description of flow to catch basin

- o Sheet flow to curb and gutter

Description of sampling method

- o B3.6.1.1 of QAPP, hardened steel shovel and stainless steel scoop

Traffic estimate (ADT)

- o 8000

Approx. weight of recovered sample

- o 2.7 Kg

Description of sample and COC

- o Dry, fine, peat type soils consistency
- o COC provided on 04.02.2010



ADT : average daily traffic

CB : catch basin

COC : chain of custody

H : highway land use

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

ST : Stuart

FIELD INFORMATION - STUART (ST - CB - H - OUT - 3)

Sample identification

- o ST – CB – H – OUT – 3

Jurisdiction

- o Stuart

Land use zoning

- o Highway

Location

- o 227 SE Ocean Blvd. and Florida Ave.

Co-ordinates

- o 27.197684 N and 80.249349 W

Date and time (with previous dry hours)

- o 6/3/2010 9:00 AM
- o pdh~24

Sampling personnel

- o Bill Griffin

Description of catchment

Cover information

- o < 15% Oak, pine, banyan tree cover and
- o > 15% impervious surfaces

Potential constraints to property access

- o Yes

Typical geometry and R/W section

- o Asphalt slightly raised center line sloping to curb and gutter system

Run-on conditions

- o Flow from to curb and gutter system from roadway, sidewalks and private property

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o Curb and gutter system, 3 curb inlets

Significant features influencing PM, N, P load

- o Traffic, on-street parking, roof drains, leaf litter, grass clippings, fertilizer

Predominant PM, N, and P sources

- o Anthropogenic (traffic)

Description of catch basin

Type

- o Catch basin

Approximate age

- o 20 years

Previous cleaning activity

- o Cleaned July, 2009

Condition

- o Fair condition, live tree roots in bottom of CB

Condition of PM residuals

- o Moist

Dimensions and volume

- o 2 ft x 2 ft x 3 ft (d), Volume: 12ft³

Description of flow to catch basin

- o Sheet flow to curb and gutter

Description of sampling method

- o B3.6.1.1 of QAPP, hardened steel shovel and stainless steel scoop

Traffic estimate (ADT)

- o 8000

Approx. weight of recovered sample

- o 2.4 Kg

Description of sample and COC

- o Moist, sandy type soil with light leaf litter
- o COC provided on 06.03.2010



ADT : average daily traffic

CB : catch basin

COC : chain of custody

H : highway land use

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

ST : Stuart

FIELD INFORMATION - STUART (ST - CB - R - OUT - 1)

Sample identification

- o ST – CB – H – OUT – 1

Jurisdiction

- o City Stuart

Land use zoning

- o Residential

Location

- o 513 SW N. Riverpoint Rd. and Palm City Rd.

Co-ordinates

- o 27.186264 N and 80.258917 W

Date and time (with previous dry hours)

- o 6/24/2009 11:22 AM
- o pdh~24

Sampling personnel

- o Bill Griffin

Description of catchment

Cover information

- o < 15% Oak, pine, banyan tree cover and
- o > 15% impervious surfaces

Potential constraints to property access

- o Yes

Typical geometry and R/W section

- o Asphalt slightly raised center line sloping toward edge of roadway, no curb and gutter system

Run-on conditions

- o Flow from residential yards to along edge of roadway into drainage system

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o 7 CBs, 576" of 15" CMP flow to single chamber baffle box

Significant features influencing PM, N, P load

- o Leaf litter, grass clippings, fertilizer, possible septic tank drain infiltration

Predominant PM, N, and P sources

- o Leaf litter, sediment, and grass

Description of catch basin

Type

- o Catch basin

Approximate age

- o 15 years

Previous cleaning activity

- o Cleaned September 25, 2008

Condition

- o Moist

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 31 in x 24 in x 6 in, Volume: 2.58ft³

Description of flow to catch basin

- o Direct runoff

Description of sampling method

- o B3.6.1.1 of QAPP, clean shovel and stainless steel scoop

Traffic estimate (ADT)

- o ~ 45

Approx. weight of recovered sample

- o 3.8 Kg

Description of sample and COC

- o Predominately sediment
- o COC provided on 06.24.2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
ST : Stuart

FIELD INFORMATION - STUART (ST - CB - R - OUT - 2)

Sample identification

- o ST – CB – H – OUT – 2

Jurisdiction

- o City Stuart

Land use zoning

- o Residential

Location

- o 513 SW N. Riverpoint Rd. and Palm City Rd.

Co-ordinates

- o 27.186264 N and 80.258917 W

Date and time (with previous dry hours)

- o 3/24/2010 9:30 AM
- o pdh~24

Sampling personnel

- o Bill Griffin

Description of catchment

Cover information

- o < 15% Oak, pine, banyan tree cover and
- o > 15% impervious surfaces

Potential constraints to property access

- o Yes

Typical geometry and R/W section

- o Asphalt slightly raised center line sloping toward edge of roadway, no curb and gutter system

Run-on conditions

- o Flow from residential yards to along edge of roadway into drainage system

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o 7 CBs, 576" of 15" CMP flow to single chamber baffle box

Significant features influencing PM, N, P load

- o Leaf litter, grass clippings, fertilizer, possible septic tank drain infiltration

Predominant PM, N, and P sources

- o Leaf litter, sediment, and grass

Description of catch basin

Type

- o Catch basin

Approximate age

- o 15 years

Previous cleaning activity

- o Cleaned June 24, 2009

Condition

- o Good condition, occurrence of denitrification viewed

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 31 in x 24 in x 6 in, Volume: 2.58ft³

Description of flow to catch basin

- o Direct runoff

Description of sampling method

- o B3.6.1.1 of QAPP, clean shovel and stainless steel scoop

Traffic estimate (ADT)

- o ~ 45

Approx. weight of recovered sample

- o 3.8 Kg

Description of sample and COC

- o Wet, fine to medium grain PM mixed with leaves
- o COC provided on 3.24.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
ST : Stuart

FIELD INFORMATION - STUART (ST - CB - R - OUT - 3)

Sample identification

- o ST – CB – H – OUT – 3

Jurisdiction

- o City Stuart

Land use zoning

- o Residential

Location

- o 513 SW N. Riverpoint Rd. and Palm City Rd.

Co-ordinates

- o 27.186264 N and 80.258917 W

Date and time (with previous dry hours)

- o 5/26/2010 8:30 AM
- o pdh~216

Sampling personnel

- o Bill Griffin

Description of catchment

Cover information

- o < 15% Oak, pine, banyan tree cover and
- o > 15% impervious surfaces

Potential constraints to property access

- o Yes

Typical geometry and R/W section

- o Asphalt slightly raised center line sloping toward edge of roadway, no curb and gutter system

Run-on conditions

- o Flow from residential yards to along edge of roadway into drainage system

Reclaimed water application

- o No

Basic description of soil type

- o Medium to fine sand

Drainage appurtenances in the area

- o 7 CBs, 576" of 15" CMP flow to single chamber baffle box

Significant features influencing PM, N, P load

- o Leaf litter, grass clippings, fertilizer, possible septic tank drain infiltration

Predominant PM, N, and P sources

- o Leaf litter, sediment, and grass

Description of catch basin

Type

- o Catch basin

Approximate age

- o 15 years

Previous cleaning activity

- o Cleaned June 24, 2009

Condition

- o Good condition, occurrence of denitrification viewed

Condition of PM residuals

- o Submerged

Dimensions and volume

- o 31 in x 24 in x 6 in, Volume: 2.58ft³

Description of flow to catch basin

- o Direct runoff

Description of sampling method

- o B3.6.1.1 of QAPP, clean shovel and stainless steel scoop

Traffic estimate (ADT)

- o ~ 45

Approx. weight of recovered sample

- o 4.4 Kg

Description of sample and COC

- o Wet, fine to medium grain PM mixed with leaves
- o COC provided on 05.26.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
ST : Stuart

FIELD INFORMATION - STUART (ST - SS - C - OUT - 1)

Sample ID

- o ST – SS – C – OUT – 1

Jurisdiction

- o City of Stuart

Land Use Zoning

- o Commercial

Location

- o 106 S Colorado Ave./SE Seminole St.

Co-ordinates

- o Sweeper generally runs north-south along Colorado and east-east along E. Ocean, Flagler Ave, Osceola St, and Seminole St. within the boundaries of the drainage area.

Date and Time (with Previous Dry Hours)

- o 10/21/2009 12:50 PM
- o pdh ~ 96

Sampling Personnel

- o Bill Griffin

Description of Catchment

Pavement Type

- o Asphalt, slightly raised center line sloping to edges of road, fair, condition, 20-25 years old

Typical Geometry and R/W Section

- o Roadway, 5,220 x 30', curb and gutter system

Run-on Conditions

- o Sheet flow to curb and gutter system from roadways along Colorado Ave., Seminole St., and portions of SW Flagler Ave., Osceola St., and SE Ocean Blvd., including on-street parking, sidewalks, and roof drains from businesses

Drainage Appurtenances in the Catchment Area

- o Curb and gutter system, 17 curb inlets, 1,643 ft of 12" to 24" RCP, into double chamber baffle box unit and then discharging to St. Lucie River

Significant Features that may affect PM, N and P loadings

- o Traffic, leaf litter, restaurant cleaning activities, commercial waste containers,

pressure cleaning wastewater runoff from sidewalk areas, and roof drains

Predominant Source

- o Leaf litter, grass clippings, and pressure cleaning activities

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 1995 Tymco 600 Regenerative Air Sweeper

Dimensions of Area Cleaned

- o 5,220 linear ft of pavement x 70" width sweeper

Previous Cleaning Activity

- o Last time swept at 10/13/09

Traffic Estimate (ADT)

- o 1,614

Approx. Weight of Recovered Sample

- o 3.6 Kg

Description of Sample and COC

- o Moist PM mixed with leaves, plastics, cigarette butts, paper, and other misc. material.
- o COC provided on 10.21.09



ADT : average daily traffic
C : commercial land use
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping
ST : Stuart

FIELD INFORMATION - STUART (ST - SS - C - OUT - 2)

Sample ID

- o ST – SS – C – OUT – 2

Jurisdiction

- o City of Stuart

Land Use Zoning

- o Commercial

Location

- o 106 S Colorado Ave./SE Seminole St.

Co-ordinates

- o Sweeper generally runs north-south along Colorado and east-east along E. Ocean, Flagler Ave, Osceola St, and Seminole St. within the boundaries of the drainage area.

Date and Time (with Previous Dry Hours)

- o 04/08/2010 12:50 PM
- o pdh ~ 240

Sampling Personnel

- o Bill Griffin

Description of Catchment

Pavement Type

- o Asphalt, slightly raised center line sloping to edges of road, fair, condition, 20-25 years old

Typical Geometry and R/W Section

- o Roadway, 5,220 x 30', curb and gutter system

Run-on Conditions

- o Sheet flow to curb and gutter system from roadways along Colorado Ave., Seminole St., and portions of SW Flagler Ave., Osceola St., and SE Ocean Blvd., including on-street parking, sidewalks, and roof drains from businesses

Drainage Appurtenances in the Catchment Area

- o Curb and gutter system, 17 curb inlets, 1,643 ft of 12" to 24" RCP, into double chamber baffle box unit and then discharging to St. Lucie River

Significant Features that may affect PM, N and P loadings

- o Traffic, leaf litter, restaurant cleaning activities, commercial waste containers,

pressure cleaning wastewater runoff from sidewalk areas, and roof drains

Predominant Source

- o Leaf litter, grass clippings, and pressure cleaning activities

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2007 Stewart-Amos Starfire S-4, broom sweeper. Note: City has new street sweeping contractor

Dimensions of Area Cleaned

- o 5,220 linear ft of pavement x 110" width sweeper

Previous Cleaning Activity

- o Last time swept at 04/05/10

Traffic Estimate (ADT)

- o 1,614

Approx. Weight of Recovered Sample

- o 1.8 Kg

Description of Sample and COC

- o Moist PM mixed with leaves, plastics, cigarette butts, paper, and other misc. material.
- o COC provided on 04.08.2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping
ST : Stuart

FIELD INFORMATION - STUART (ST - SS - C - OUT - 3)

Sample ID

- o ST – SS – C – OUT – 3

Jurisdiction

- o City of Stuart

Land Use Zoning

- o Commercial

Location

- o 106 S Colorado Ave./SE Seminole St.

Co-ordinates

- o Sweeper generally runs north-south along Colorado and east-east along E. Ocean, Flagler Ave, Osceola St, and Seminole St. within the boundaries of the drainage area.

Date and Time (with Previous Dry Hours)

- o 05/24/2010 12:50 PM
- o pdh ~ 168

Sampling Personnel

- o Bill Griffin

Description of Catchment

Pavement Type

- o Asphalt, slightly raised center line sloping to edges of road, fair, condition, 20-25 years old

Typical Geometry and R/W Section

- o Roadway, 5,220 x 30', curb and gutter system

Run-on Conditions

- o Sheet flow to curb and gutter system from roadways along Colorado Ave., Seminole St., and portions of SW Flagler Ave., Osceola St., and SE Ocean Blvd., including on-street parking, sidewalks, and roof drains from businesses

Drainage Appurtenances in the Catchment Area

- o Curb and gutter system, 17 curb inlets, 1,643 ft of 12" to 24" RCP, into double chamber baffle box unit and then discharging to St. Lucie River

Significant Features that may affect PM, N and P loadings

- o Traffic, leaf litter, restaurant cleaning activities, commercial waste containers,

pressure cleaning wastewater runoff from sidewalk areas, and roof drains

Predominant Source

- o Leaf litter, grass clippings, and pressure cleaning activities

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2007 Stewart-Amos Starfire S-4, broom sweeper. Note: City has new street sweeping contractor

Dimensions of Area Cleaned

- o 5,220 linear ft of pavement x 110" width sweeper

Previous Cleaning Activity

- o Swept earlier that morning

Traffic Estimate (ADT)

- o 1,614

Approx. Weight of Recovered Sample

- o 2.5 Kg

Description of Sample and COC

- o Predominately lead litter and PM, also cigarette butts
- o COC provided on 05.24.2010



ADT : average daily traffic
C : commercial land use
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping
ST : Stuart

FIELD INFORMATION - STUART (ST - SS - H - OUT - 1)

Sample ID

- o ST – SS – H – OUT – 1

Jurisdiction

- o City of Stuart

Land Use Zoning

- o Commercial

Location

- o 227 SE Ocean Blvd/Florida Ave.

Co-ordinates

- o Sweeper runs east-west on SE Ocean and north-south on SE Florida Ave. within the boundaries of the drainage area

Date and Time (with Previous Dry Hours)

- o 07/07/2009 07:40 AM
- o pdh ~ 72

Sampling Personnel

- o Bill Griffin

Description of Catchment

Pavement Type

- o Asphalt, slightly raised center line sloping to edges of road, fair, condition, 20-25 years old

Typical Geometry and R/W Section

- o Roadway, 980' x 30', curb and gutter system

Run-on Conditions

- o Sheet flow to curb and gutter system from roadway, sidewalks (including grass neutral strip) and private property

Drainage Appurtenances in the Catchment Area

- o Curb and gutter system, 3 curb inlets, 700 ft of 8" CPVC to 14" PVC, through CDS unit and then discharging to St. Lucie River

Significant Features that may affect PM, N and P loadings

- o Traffic, on-street parking, roof drains leaf litter, grass clippings, fertilizer

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 1995 Tymco 600 Regenerative Air Sweeper

Dimensions of Area Cleaned

- o 980 linear ft of pavement x 70" width sweeper

Previous Cleaning Activity

- o Last time swept at 06/28/09

Traffic Estimate (ADT)

- o 5,480

Approx. Weight of Recovered Sample

- o 1.8 Kg

Description of Sample and COC

- o Predominately dry, mixed with few leaves and cigarette butts
- o COC provided on 07.07.09



ADT : average daily traffic
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping
ST : Stuart

FIELD INFORMATION - STUART (ST - SS - H - OUT - 2)

Sample ID

- o ST – SS – H – OUT – 2

Jurisdiction

- o City of Stuart

Land Use Zoning

- o Commercial

Location

- o 227 SE Ocean Blvd/Florida Ave.

Co-ordinates

- o Sweeper runs east-west on SE Ocean and north-south on SE Florida Ave. within the boundaries of the drainage area

Date and Time (with Previous Dry Hours)

- o 04/01/2010 08:35 AM
- o pdh ~ 48

Sampling Personnel

- o Bill Griffin

Description of Catchment

Pavement Type

- o Asphalt, slightly raised center line sloping to edges of road, fair, condition, 20-25 years old

Typical Geometry and R/W Section

- o Roadway, 980' x 30', curb and gutter system

Run-on Conditions

- o Sheet flow to curb and gutter system from roadway, sidewalks (including grass neutral strip) and private property

Drainage Appurtenances in the Catchment Area

- o Curb and gutter system, 3 curb inlets, 700 ft of 8" CPVC to 14" PVC, through CDS unit and then discharging to St. Lucie River

Significant Features that may affect PM, N and P loadings

- o Traffic, on-street parking, roof drains leaf litter, grass clippings, fertilizer

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2007 Stewart-Amos Starfire S-4, broom sweeper. Note: City has new street sweeping contractor

Dimensions of Area Cleaned

- o 980 linear ft of pavement x 110" width sweeper

Previous Cleaning Activity

- o Last time swept at 03/22/10

Traffic Estimate (ADT)

- o 5,480

Approx. Weight of Recovered Sample

- o 3.6 Kg

Description of Sample and COC

- o Predominately dry, mixed with few leaves and cigarette butts
- o COC provided on 04.02.2010



ADT : average daily traffic
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping
ST : Stuart

FIELD INFORMATION - STUART (ST - SS - H - OUT - 3)

Sample ID

- o ST – SS – H – OUT – 3

Jurisdiction

- o City of Stuart

Land Use Zoning

- o Commercial

Location

- o 227 SE Ocean Blvd/Florida Ave.

Co-ordinates

- o Sweeper runs east-west on SE Ocean and north-south on SE Florida Ave. within the boundaries of the drainage area

Date and Time (with Previous Dry Hours)

- o 06/03/2010 11:35 AM
- o pdh ~ 24

Sampling Personnel

- o Bill Griffin

Description of Catchment

Pavement Type

- o Asphalt, slightly raised center line sloping to edges of road, fair, condition, 20-25 years old

Typical Geometry and R/W Section

- o Roadway, 980' x 30', curb and gutter system

Run-on Conditions

- o Sheet flow to curb and gutter system from roadway, sidewalks (including grass neutral strip) and private property

Drainage Appurtenances in the Catchment Area

- o Curb and gutter system, 3 curb inlets, 700 ft of 8" CPVC to 14" PVC, through CDS unit and then discharging to St. Lucie River

Significant Features that may affect PM, N and P loadings

- o Traffic, on-street parking, roof drains leaf litter, grass clippings, fertilizer

Predominant Source

- o Traffic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2007 Stewart-Amos Starfire S-4, broom sweeper. Note: City has new street sweeping contractor

Dimensions of Area Cleaned

- o 980 linear ft of pavement x 110" width sweeper

Previous Cleaning Activity

- o Last time swept at 06/02/10

Traffic Estimate (ADT)

- o 5,480

Approx. Weight of Recovered Sample

- o 3.3 Kg

Description of Sample and COC

- o Predominately dry, mixed with few leaves and cigarette butts
- o COC provided on 06.03.2010



ADT : average daily traffic
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping
ST : Stuart

FIELD INFORMATION - STUART (ST - SS - R - OUT - 1)

Sample ID

- o ST - SS - R - OUT - 1

Jurisdiction

- o City of Stuart

Land Use Zoning

- o Residential

Location

- o 513 SW N. Riverpoint Rd. and Palm City Rd.

Co-ordinates

- o LAT: 27.186284, LON: -80.258917

Date and Time (with Previous Dry Hours)

- o 6/24/2009 12:42 PM
- o pdh ~24

Sampling Personnel

- o Bill Griffin

Description of Catchment

Pavement Type

- o Asphalt, slightly raised center line sloping to edges of road, fair, condition, 20-25 years old

Typical Geometry and R/W Section

- o Roadway is 1357' x 20', no curb and gutter system, no ditch section.

Run-on Conditions

- o Flow from residential front yards to along edge of roadway into drainage system to St. Lucie River

Drainage Appurtenances in the Catchment Area

- o 7 catch basins, 576 ft of 15" CMP, flows to single chamber baffle box and then discharges to St. Lucie River through 200 ft of 15" RCP

Significant Features that may affect PM, N and P loadings

- o Leaf litter, grass clippings, fertilizer, possible septic tank drain field infiltration

Predominant Source

- o Leaf litter, grass clippings, and sediment

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 1995 Tymco 600 Regenerative Air Sweeper

Dimensions of Area Cleaned

- o 2,714 linear ft of pavement x 70" width sweeper

Previous Cleaning Activity

- o No schedule for sweeping this area

Traffic Estimate (ADT)

- o 40-50

Approx. Weight of Recovered Sample

- o 2.8 Kg

Description of Sample and COC

- o Mixture of sediment and leaf litter
- o COC provided on 06.24.2009



ADT : average daily traffic
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping
ST : Stuart

FIELD INFORMATION - STUART (ST - SS - R - OUT - 1)

Sample ID

- o ST - SS - R - OUT - 1

Jurisdiction

- o City of Stuart

Land Use Zoning

- o Residential

Location

- o 513 SW N. Riverpoint Rd. and Palm City Rd.

Co-ordinates

- o LAT: 27.186284, LON: -80.258917

Date and Time (with Previous Dry Hours)

- o 6/24/2009 12:42 PM
- o pdh ~24

Sampling Personnel

- o Bill Griffin

Description of Catchment

Pavement Type

- o Asphalt, slightly raised center line sloping to edges of road, fair, condition, 20-25 years old

Typical Geometry and R/W Section

- o Roadway is 1357' x 20', no curb and gutter system, no ditch section.

Run-on Conditions

- o Flow from residential front yards to along edge of roadway into drainage system to St. Lucie River

Drainage Appurtenances in the Catchment Area

- o 7 catch basins, 576 ft of 15" CMP, flows to single chamber baffle box and then discharges to St. Lucie River through 200 ft of 15" RCP

Significant Features that may affect PM, N and P loadings

- o Leaf litter, grass clippings, fertilizer, possible septic tank drain field infiltration

Predominant Source

- o Leaf litter, grass clippings, and sediment

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 1995 Tymco 600 Regenerative Air Sweeper

Dimensions of Area Cleaned

- o 2,714 linear ft of pavement x 70" width sweeper

Previous Cleaning Activity

- o No schedule for sweeping this area

Traffic Estimate (ADT)

- o 40-50

Approx. Weight of Recovered Sample

- o 2.8 Kg

Description of Sample and COC

- o Mixture of sediment and leaf litter
- o COC provided on 03.24.2010



ADT : average daily traffic
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping
ST : Stuart

FIELD INFORMATION - STUART (ST - SS - R - OUT - 3)

Sample ID

- o ST - SS - R - OUT - 3

Jurisdiction

- o City of Stuart

Land Use Zoning

- o Residential

Location

- o 513 SW N. Riverpoint Rd. and Palm City Rd.

Co-ordinates

- o LAT: 27.186264/LON -80.258917

Date and Time (with Previous Dry Hours)

- o 5/26/2010 09:30 AM
- o pdh ~216

Sampling Personnel

- o Bill Griffin

Description of Catchment

Pavement Type

- o Asphalt, slightly raised center line sloping to edges of road, fair, condition, 20-25 years old

Typical Geometry and R/W Section

- o Roadway is 1357' x 20', no curb and gutter system, no ditch section.

Run-on Conditions

- o Flow from residential front yards to along edge of roadway into drainage system to St. Lucie River

Drainage Appurtenances in the Catchment Area

- o 7 catch basins, 576 ft of 15" CMP, flows to single chamber baffle box and then discharges to St. Lucie River through 200 ft of 15" RCP

Significant Features that may affect PM, N and P loadings

- o Leaf litter, grass clippings, fertilizer, possible septic tank drain field infiltration

Predominant Source

- o Leaf litter, grass clippings, and sediment

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2007 Stewart-Amos Starfire S-4, broom sweeper.

Dimensions of Area Cleaned

- o 2,714 linear ft of pavement x 110" width sweeper

Previous Cleaning Activity

- o 03/24/19 in conjunction with this project

Traffic Estimate (ADT)

- o 132

Approx. Weight of Recovered Sample

- o 2.8 Kg

Description of Sample and COC

- o Moist, fine to medium grain PM mxed with leaves
- o COC provided on 05.26.2010



ADT : average daily traffic
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping
ST : Stuart

TALLAHASSEE

(TAL)

FIELD INFORMATION - TALLAHASSEE (TAL - BMP - C - OUT - 1)

Sample identification

- o TAL – BMP – C – OUT – 1

Jurisdiction

- o Tallahassee

Land use zoning

- o Commercial, Restaurant, Hotel, Small Businesses

Location

- o University; Virginia and Copeland Streets

Co-ordinates

- o 30.445833 N & 84.291694 W

Date and time (with previous dry hours)

- o 08/2/2010 10:10 AM
- o pdh ~ 18

Sampling personnel

- o Mark Heidecker, Sarah Keith-Valentine

Description of catchment

Cover information

- o 20% canopy oaks

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Rolling Hills; Cross Section- Average Slope

Run-on conditions

- o Bars, Restaurants

Reclaimed water application

- o No

Basic description of soil type

- o Orangeburg-Urban Land Complex, 2-12% Slopes

Drainage appurtenances in the area

- o Curb and gutter to curb inlets

Significant features influencing PM, N, P load

- o Large amounts of exposed soil in the area

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Removal of accumulated sediments

Approximate age

- o NA

Previous cleaning activity

- o Unknown

Condition

- o NA

Condition of PM residuals

- o Moist

Dimensions and volume

- o NA

Description of flow to BMP

- o Large amount of the sediment accumulation may be attributed to the parking lots with exposed soils of the bars, restaurants, and nightclubs facing Tennessee Street.

Description of sampling method

- o Stainless steel scoop

Traffic estimate (ADT)

- o 2504

Approx. weight of recovered sample

- o ~3 pounds.

Description of sample and COC

- o Anthropogenic
- o COC provided on 08.05.2010



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - BMP - C - OUT - 2)

Sample identification

- o TAL – BMP – C – OUT – 2

Jurisdiction

- o Tallahassee

Land use zoning

- o Commercial

Location

- o Downtown; Monroe & Kestner

Co-ordinates

- o 30.427417 N & 84.2805 W

Date and time (with previous dry hours)

- o 08/2/2010 12:10 PM
- o pdh ~ 18

Sampling personnel

- o Mark Heidecker, Sarah Keith-Valentine

Description of catchment

Cover information

- o 5% & Landscaping Vegetation

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Rolling Hills; Cross Section- Average Slope

Run-on conditions

- o Commercial

Reclaimed water application

- o N/A

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb & Gutter

Significant features influencing PM, N, P load

- o Highly Urbanized Commercial

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Removal of accumulated sediments

Approximate age

- o N/A

Previous cleaning activity

- o Unknown

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o Flow originates from commercial area & flows into the catch basin inlets, areas of sediment accumulation are evident where stormwater velocities slow.

Description of sampling method

- o Stainless steel scoop

Traffic estimate (ADT)

- o 20,349

Approx. weight of recovered sample

- o ~3 pounds.

Description of sample and COC

- o Anthropogenic
- o COC provided on 08.05.2010



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - BMP - C - OUT - 3)

Sample identification

- o TAL – BMP – C – OUT – 3

Jurisdiction

- o Tallahassee

Land use zoning

- o Commercial

Location

- o Southside; Monroe & Polk

Co-ordinates

- o 30.413361 N & 84.280472 W

Date and time (with previous dry hours)

- o 08/2/2010 12:20 PM
- o pdh ~ 18

Sampling personnel

- o Mark Heidecker, Sarah Keith-Valentine

Description of catchment

Cover information

- o 10% Landscaping Vegetation

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Rolling Hills; Cross Section- Average Slope

Run-on conditions

- o Commercial

Reclaimed water application

- o N/A

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb & Gutter

Significant features influencing PM, N, P load

- o Highly Urbanized Commercial

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Removal of accumulated sediments

Approximate age

- o N/A

Previous cleaning activity

- o Unknown

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o Flow originates from commercial area & flows into the catch basin inlets, areas of sediment accumulation are evident where stormwater velocities slow.

Description of sampling method

- o Stainless steel scoop

Traffic estimate (ADT)

- o 22,589

Approx. weight of recovered sample

- o ~3 pounds.

Description of sample and COC

- o Anthropogenic
- o COC provided on 08.05.2010



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - BMP - H - OUT - 1)

Sample identification

- o TAL – BMP – H – OUT – 1

Jurisdiction

- o Tallahassee

Land use zoning

- o Arterial Roadway

Location

- o Old Bainbridge near Mulberry

Co-ordinates

- o 30.46625 N & 84.303583 W

Date and time (with previous dry hours)

- o 08/2/2010 10:50

- o pdh ~ 18

Sampling personnel

- o Mark Heidecker, Sarah Keith-Valentine

Description of catchment

Cover information

- o 70%; Mixed Canopy

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Rolling Hills; Cross Section- Average Slope

Run-on conditions

- o Residential, Small Businesses

Reclaimed water application

- o N/A

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Swale & Ditch

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Removal of accumulated sediments

Approximate age

- o N/A

Previous cleaning activity

- o Unknown

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o Flow originates from residential housing and small businesses. The sediment is accumulating where the slope levels out and run-off velocities are slowed by vegetation prior to entering the ditch.

Description of sampling method

- o Stainless steel scoop

Traffic estimate (ADT)

- o 12,959

Approx. weight of recovered sample

- o ~3 pounds.

Description of sample and COC

- o Anthropogenic
- o COC provided on 08.05.2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - BMP - H - OUT - 2)

Sample identification

- o TAL – BMP – H – OUT – 2

Jurisdiction

- o Tallahassee

Land use zoning

- o Arterial Roadway

Location

- o Meridian Road at Desoto

Co-ordinates

- o 30.462139 N & 84.277361 W

Date and time (with previous dry hours)

- o 08/2/2010 11:00

- o pdh ~ 18

Sampling personnel

- o Mark Heidecker, Sarah Keith-Valentine

Description of catchment

Cover information

- o 70%; Mixed Canopy Oak & Pine

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Rolling Hills; Cross Section- Average Slope

Run-on conditions

- o Mixed Use

Reclaimed water application

- o N/A

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb & Gutter

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Biogenic

Description of BMP

Type

- o Removal of accumulated sediments

Approximate age

- o N/A

Previous cleaning activity

- o Unknown

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o Flow originates from steep side slopes along the backside of homes along Meridian Road. Biogenic debris with a minor amount of accumulated sediment builds up in front of catch basin inlets.

Description of sampling method

- o Stainless steel scoop

Traffic estimate (ADT)

- o 7,460

Approx. weight of recovered sample

- o ~2 pounds.

Description of sample and COC

- o Biogenic
- o COC provided on 08/05/2010



ADT : average daily traffic

BMP : best management practice

COC : chain of custody

H : highway land use

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - BMP - H - OUT - 3)

Sample identification

- o TAL – BMP – H – OUT – 3

Jurisdiction

- o Tallahassee

Land use zoning

- o Arterial Roadway

Location

- o Southside; Meridian near Polk

Co-ordinates

- o 30.414528 N & 84.277028 W

Date and time (with previous dry hours)

- o 08/2/2010 12:25
- o pdh ~ 18

Sampling personnel

- o Mark Heidecker, Sarah Keith-Valentine

Description of catchment

Cover information

- o 80%; Mixed Canopy

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Rolling Hills; Cross Section- Average Slope

Run-on conditions

- o Mixed Use of small business & multi-family residential

Reclaimed water application

- o N/A

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb & Gutter

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Removal of accumulated sediments

Approximate age

- o N/A

Previous cleaning activity

- o Unknown

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o Flow velocities slow as the grade lessens near the East Drainage Ditch. A small amount of sediment and particulate matter accumulates in this area.

Description of sampling method

- o Stainless steel scoop

Traffic estimate (ADT)

- o 4,951

Approx. weight of recovered sample

- o ~2 pounds.

Description of sample and COC

- o Mixed Anthropogenic and Biogenic
- o COC provided on 08.05.2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - BMP - R - OUT - 1)

Sample identification

- o TAL – BMP – R – OUT – 1

Jurisdiction

- o Tallahassee

Land use zoning

- o Residential

Location

- o Corner of Dewey & Georgia Streets

Co-ordinates

- o 30.448167 N & 84.294139 W

Date and time (with previous dry hours)

- o 08/2/2010 10:25

- o pdh ~ 18

Sampling personnel

- o Mark Heidecker, Sarah Keith-Valentine

Description of catchment

Cover information

- o 30% Canopy Oaks

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Rolling Hills; Cross Section- Average Slope

Run-on conditions

- o Residential

Reclaimed water application

- o N/A

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb & Gutter to Curb Inlets

Significant features influencing PM, N, P load

- o Exposed Soil in the Area

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Removal of accumulated sediments

Approximate age

- o N/A

Previous cleaning activity

- o Unknown

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o Flow originates from residential housing and parking lots in an area of student housing. The sediment is accumulating where the slope levels out and run-off velocities are slowed.

Description of sampling method

- o Stainless steel scoop

Traffic estimate (ADT)

- o ~1,500

Approx. weight of recovered sample

- o ~3 pounds.

Description of sample and COC

- o Anthropogenic
- o COC provided on 08.05.2010



ADT : average daily traffic

BMP : best management practice

COC : chain of custody

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - BMP - R - OUT - 2)

Sample identification

- o TAL – BMP – R – OUT – 2

Jurisdiction

- o Tallahassee

Land use zoning

- o Residential

Location

- o Downtown; Beverly Ct. & Meridian Road

Co-ordinates

- o 30.442694 N & 84.277083 W

Date and time (with previous dry hours)

- o 08/2/2010 11:20
- o pdh ~ 18

Sampling personnel

- o Mark Heidecker, Sarah Keith-Valentine

Description of catchment

Cover information

- o 40%, Oak Canopy

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Rolling Hills; Cross Section- Average Slope

Run-on conditions

- o Residential, Open Space

Reclaimed water application

- o N/A

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb & Gutter

Significant features influencing PM, N, P load

- o Relatively Steep Grades

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Removal of accumulated sediments

Approximate age

- o N/A

Previous cleaning activity

- o Unknown

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o Flow originates from residential & open space along Park Avenue and flows with a relatively high velocity to the area of sediment accumulation.

Description of sampling method

- o Stainless steel scoop

Traffic estimate (ADT)

- o 1,584

Approx. weight of recovered sample

- o ~3 pounds.

Description of sample and COC

- o Anthropogenic
- o COC provided on 08.05.2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - BMP - R - OUT - 3)

Sample identification

- o TAL – BMP – R – OUT – 3

Jurisdiction

- o Tallahassee

Land use zoning

- o Residential

Location

- o Myers Park; Seminole & Cherokee

Co-ordinates

- o 30.427 N & 84.265917 W

Date and time (with previous dry hours)

- o 08/2/2010 11:35

- o pdh ~ 18

Sampling personnel

- o Mark Heidecker, Sarah Keith-Valentine

Description of catchment

Cover information

- o 75%, Mixed Canopy

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Rolling Hills; Cross Section- Average Slope

Run-on conditions

- o Residential

Reclaimed water application

- o N/A

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Swale & Ditch

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Mix of Anthropogenic & Biogenic

Description of BMP

Type

- o Removal of accumulated sediments

Approximate age

- o N/A

Previous cleaning activity

- o Unknown

Condition

- o N/A

Condition of PM residuals

- o Moist

Dimensions and volume

- o N/A

Description of flow to BMP

- o Flow originates from residential area & flows into the swale or ditch where sediments accumulate

Description of sampling method

- o Stainless steel scoop

Traffic estimate (ADT)

- o 763

Approx. weight of recovered sample

- o ~3 pounds.

Description of sample and COC

- o Anthropogenic & Biogenic
- o COC provided on 08/05/2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - CB - C - OUT - 1)

Sample identification

- o TAL – CB – C – OUT – 1

Jurisdiction

- o Tallahassee

Land use zoning

- o Commercial, Restaurant, Hotel, Small Businesses

Location

- o University; NE Corner of Tennessee and Dewey Streets

Co-ordinates

- o 30.44504 N and 84.29451 W

Date and time (with previous dry hours)

- o 06/15/2009 11:23 AM
- o pdh ~ 216

Sampling personnel

- o Mark Heidecker, Sarah Keith-Valentine

Description of catchment

Cover information

- o 25% canopy oaks

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Rolling Hills; Cross Section- Average Slope

Run-on conditions

- o Fast Food Restaurants, Hotels, Strip Malls

Reclaimed water application

- o No

Basic description of soil type

- o Urban Land

Drainage appurtenances in the area

- o Curb and gutter to curb inlets

Significant features influencing PM, N, P load

- o Brick lined

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o Older (brick lined)

Previous cleaning activity

- o Unknown

Condition

- o Needs maintenance attention

Condition of PM residuals

- o Dry

Dimensions and volume

- o 25 in (w) x 25 in (d) x 40 in (l)

Description of flow to catch basin

- o Direct run-off

Description of sampling method

- o Stainless steel scoop

Traffic estimate (ADT)

- o 39509

Approx. weight of recovered sample

- o ~3 pounds.

Description of sample and COC

- o Mostly anthropogenic
- o COC provided on 06.16.2009



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL-CB-C-OUT-2)

Sample identification

- o TAL – CB – C – OUT – 2

Jurisdiction

- o Tallahassee

Land use zoning

- o Commercial, Restaurant, Car dealerships, Small Businesses

Location

- o Monroe Street; NE Corner of Monroe & Pershing Streets

Co-ordinates

- o 30.42974 N and 84.27995 W

Date and time (with previous dry hours)

- o 06/15/2009 10:03 AM
- o pdh~216

Sampling personnel

- o Mark Heidecker, Sarah Keith-Valentine

Description of catchment

Cover information

- o 25% canopy oaks and pines

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Rolling Hills; Cross Section- Average Slope

Run-on conditions

- o Used Car Dealerships, Restaurants, Small Businesses

Reclaimed water application

- o No

Basic description of soil type

- o Urban Land

Drainage appurtenances in the area

- o Curb and gutter to curb inlets

Significant features influencing PM, N, P load

- o Brick lined

Predominant PM, N, and P sources

- o 50 : 50, Biogenic : Anthropogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o Older (brick lined)

Previous cleaning activity

- o Unknown

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o 5 ft (w) x 5 ft (d)

Description of flow to catch basin

- o Direct run-off

Description of sampling method

- o Plastic scoop

Traffic estimate (ADT)

- o 20349

Approx. weight of recovered sample

- o ~4 pounds.

Description of sample and COC

- o Mostly anthropogenic
- o COC provided on 06.16.2009



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - CB - C - OUT - 3)

Sample identification

- o TAL – CB – C – OUT – 3

Jurisdiction

- o Tallahassee

Land use zoning

- o Commercial, Auto Repair, Restaurants, Small Businesses

Location

- o Monroe Street; NE Corner of Monroe & Polk Streets

Co-ordinates

- o 30.41332 N and 84.28042 W

Date and time (with previous dry hours)

- o 06/15/2009 9:32 AM
- o pdh ~ 216

Sampling personnel

- o Mark Heidecker, Sarah Keith-Valentine

Description of catchment

Cover information

- o 25% canopy oaks

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Rolling Hills; Cross Section- Average Slope

Run-on conditions

- o Auto Repair, Restaurants, Small Businesses

Reclaimed water application

- o No

Basic description of soil type

- o Albany Loamy Sand

Drainage appurtenances in the area

- o Curb and gutter to curb inlets

Significant features influencing PM, N, P load

- o Oil change facility across the street

Predominant PM, N, and P sources

- o 50 : 50, Anthropogenic : Biogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o Modern

Previous cleaning activity

- o Unknown

Condition

- o Needs maintenance attention

Condition of PM residuals

- o Moist

Dimensions and volume

- o 16 in (w) x 25 in (d) x 16 in (l)

Description of flow to catch basin

- o Direct run-off

Description of sampling method

- o Stainless steel scoop

Traffic estimate (ADT)

- o 22589

Approx. weight of recovered sample

- o ~2 pounds.

Description of sample and COC

- o 50 : 50, Anthropogenic(fine sediment) : Biogenic(mostly leaves)
- o COC provided on 06.16.2009



ADT : average daily traffic

C : commercial land use

CB : catch basin

COC : chain of custody

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - CB - H - OUT - 1)

Sample identification

- o TAL – CB – H – OUT – 1

Jurisdiction

- o Tallahassee

Land use zoning

- o Arterial Roadway, Small Businesses, Schools, Apartment Complexes

Location

- o Old Bainbridge Road; NW Corner of Old Bainbridge and Volusia

Co-ordinates

- o 30.45812 N and 84.29599 W

Date and time (with previous dry hours)

- o 06/15/2009 11:02 AM
- o pdh ~ 216

Sampling personnel

- o Mark Heidecker, Sarah Keith-Valentine

Description of catchment

Cover information

- o 75% canopy oaks and pines

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Rolling Hills; Cross Section- 2-12% Slopes and Orangeburg-Urban Land Complex

Run-on conditions

- o Small Businesses, Schools, Apartment Complexes

Reclaimed water application

- o No

Basic description of soil type

- o Albany Loamy Sand

Drainage appurtenances in the area

- o Curb and gutter to curb inlets

Significant features influencing PM, N, P load

- o Brick lined

Predominant PM, N, and P sources

- o 50 : 50, Anthropogenic : Biogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o Older(brick lined)

Previous cleaning activity

- o Unknown

Condition

- o Needs maintenance attention, very full

Condition of PM residuals

- o Dry

Dimensions and volume

- o 18 in (w) x 3 ft (d) x 3 ft (h)

Description of flow to catch basin

- o Direct run-off

Description of sampling method

- o Stainless steel scoop

Traffic estimate (ADT)

- o 14886

Approx. weight of recovered sample

- o 2.5 pounds.

Description of sample and COC

- o 50 : 50, Anthropogenic : Biogenic
- o COC provided on 06.16.2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - CB - H - OUT - 2)

Sample identification

- o TAL – CB – H – OUT – 2

Jurisdiction

- o Tallahassee

Land use zoning

- o Arterial Roadway

Location

- o Lake Ella; NW corner of Desoto and Meridian Roads

Co-ordinates

- o 30.46229 N and 84.27774 W

Date and time (with previous dry hours)

- o 06/15/2009 10:50 AM
- o pdh ~ 216

Sampling personnel

- o Mark Heidecker, Sarah Keith-Valentine

Description of catchment

Cover information

- o 75% canopy oaks

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Rolling Hills; Cross Section- 2-12% Slopes and Orangeburg-Urban Land Complex

Run-on conditions

- o Churches, Single Family Homes, Apartment Complexes

Reclaimed water application

- o No

Basic description of soil type

- o N/A

Drainage appurtenances in the area

- o Curb and gutter to curb inlets

Significant features influencing PM, N, P load

- o Brick lined

Predominant PM, N, and P sources

- o 50 : 50, Anthropogenic : Biogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o Older (brick lined)

Previous cleaning activity

- o Unknown

Condition

- o Good

Condition of PM residuals

- o Dry

Dimensions and volume

- o 18 in (w) x 3 ft (d) x 3 ft (h)

Description of flow to catch basin

- o Direct run-off

Description of sampling method

- o Stainless steel scoop

Traffic estimate (ADT)

- o 7460

Approx. weight of recovered sample

- o ~1.5 pounds.

Description of sample and COC

- o 50 : 50, Anthropogenic (sediment) : Biogenic (leaves, feathers)
- o COC provided on 06.16.2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - CB - H - OUT - 3)

Sample identification

- o TAL – CB – H – OUT – 3

Jurisdiction

- o Tallahassee

Land use zoning

- o Arterial Roadway

Location

- o Meridian Road South; Near East Drainage Ditch

Co-ordinates

- o 30.41453 N and 84.27711 W

Date and time (with previous dry hours)

- o 06/15/2009 9:46 AM
- o pdh ~ 216

Sampling personnel

- o Mark Heidecker, Sarah Keith-Valentine

Description of catchment

Cover information

- o 75% canopy oaks, pines, and maples

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Rolling Hills; Cross Section- 2-12% Slopes and Orangeburg-Urban Land Complex

Run-on conditions

- o Convenience Store, Single Family Homes, Apartment Complexes

Reclaimed water application

- o No

Basic description of soil type

- o Pelham Fine Sand

Drainage appurtenances in the area

- o Curb and gutter to curb inlets

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o Modern

Previous cleaning activity

- o Unknown

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o 5 ft (d), Standard curb inlet

Description of flow to catch basin

- o Direct run-off

Description of sampling method

- o Plastic scoop

Traffic estimate (ADT)

- o 4951

Approx. weight of recovered sample

- o ~4 pounds.

Description of sample and COC

- o Mainly fine sediment
- o COC provided on 06.16.2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - CB - R - OUT - 1)

Sample identification

- o TAL – CB – R – OUT – 1

Jurisdiction

- o Tallahassee

Land use zoning

- o Residential

Location

- o Frenchtown; Corner of Dewey and Carolina Streets

Co-ordinates

- o 30.447222 N and 84.29425 W

Date and time (with previous dry hours)

- o 8/2/2010 10:30 AM
- o pdh ~ 18

Sampling personnel

- o Mark Heidecker, Sarah Keith-Valentine

Description of catchment

Cover information

- o 10% canopy oaks

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Rolling Hills; Cross Section- 2-12% Slopes

Run-on conditions

- o Single Family Residential

Reclaimed water application

- o No

Basic description of soil type

- o Orangeburg-Urban Land Complex

Drainage appurtenances in the area

- o Curb and gutter to curb inlets

Significant features influencing PM, N, P load

- o Student housing and nearby road construction

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o Older (brick lined)

Previous cleaning activity

- o Unknown

Condition

- o Poor

Condition of PM residuals

- o Moist

Dimensions and volume

- o 3 ft (d) x 3 ft (l) x 20 in (w)

Description of flow to catch basin

- o Direct run-off

Description of sampling method

- o Stainless Steel Scoop

Traffic estimate (ADT)

- o 3228

Approx. weight of recovered sample

- o 1 pound

Description of sample and COC

- o Anthropogenic sources
- o COC provided on 08.05.2010



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - CB - R - OUT - 2)

Sample identification

- o TAL – CB – R – OUT – 2

Jurisdiction

- o Tallahassee

Land use zoning

- o Residential

Location

- o Downtown; NW Corner of Franklin and Call Streets

Co-ordinates

- o 30.44341 N and 84.27314 W

Date and time (with previous dry hours)

- o 6/15/2009 10:35 AM
- o pdh ~ 216

Sampling personnel

- o Mark Heidecker, Sarah Keith-Valentine

Description of catchment

Cover information

- o 70% canopy oaks and magnolias

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Rolling Hills; Cross Section- 2-12% Slopes

Run-on conditions

- o Single Family Residential and Law Firms

Reclaimed water application

- o No

Basic description of soil type

- o Orangeburg-Urban Land Complex

Drainage appurtenances in the area

- o Curb and gutter to curb inlets

Significant features influencing PM, N, P load

- o Brick lined

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o Older (brick lined)

Previous cleaning activity

- o Unknown

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o 5 ft (d) x 3 ft (l) x 20 in (w)

Description of flow to catch basin

- o Direct run-off

Description of sampling method

- o Plastic scoop

Traffic estimate (ADT)

- o 2307

Approx. weight of recovered sample

- o ~3 pounds

Description of sample and COC

- o Mainly anthropogenic sources with light mix of leaves
- o COC provided on 06.26.2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - CB - R - OUT - 3)

Sample identification

- o TAL – CB – R – OUT – 3

Jurisdiction

- o Tallahassee

Land use zoning

- o Residential

Location

- o Myers Park; NW Corner of Country Club and Chero kee

Co-ordinates

- o 30.426910 N and 84.268320 W

Date and time (with previous dry hours)

- o 6/15/2009 10:19 AM
- o pdh ~ 216

Sampling personnel

- o Mark Heidecker, Sarah Keith-Valentine

Description of catchment

Cover information

- o 80% canopy oaks, magnolia, and pines

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Rolling Hills; Cross Section- 2-12% Slopes

Run-on conditions

- o Single Family Residential

Reclaimed water application

- o No

Basic description of soil type

- o Orangeburg-Urban Land Complex and Fine Loamy Sand

Drainage appurtenances in the area

- o Curb and gutter to curb inlets

Significant features influencing PM, N, P load

- o Brick lined

Predominant PM, N, and P sources

- o Biogenic

Description of catch basin

Type

- o Catch basin

Approximate age

- o Older (brick lined)

Previous cleaning activity

- o Unknown

Condition

- o Good

Condition of PM residuals

- o Moist

Dimensions and volume

- o 3 ft (d) x 3 ft (l) x 18 in (w)

Description of flow to catch basin

- o Direct run-off

Description of sampling method

- o Plastic scoop

Traffic estimate (ADT)

- o 763

Approx. weight of recovered sample

- o ~1 pound

Description of sample and COC

- o Mainly fine sediment with light mix of pinestraw and small leaves
- o COC provided on 06.16.2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - SS - C - OUT - 1)

Sample ID

- o TAL – SS – C – OUT – 1

Jurisdiction

- o Tallahassee

Land Use Zoning

- o Commercial

Location

- o University; Collegiate Strip- Tennessee from Woodward to Martin Luther King Blvd.

Co-ordinates

- o NA

Date and Time (with Previous Dry Hours)

- o 06/12/2009 10:30 AM
- o ~144

Sampling Personnel

- o Mark Heidecker, Geoff Watts

Description of Catchment

Pavement Type

- o Asphalt

Typical Geometry and R/W Section

- o Rolling Hills; Cross Section- Average Slope

Run-on Conditions

- o Fast Food Restaurants, Hotels, Strip Malls

Drainage Appurtenances in the Catchment Area

- o Curb & Gutter to Curb Inlets

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description if Sweeping Equipment

- o 2008 Elgin Pelican P

Dimensions of Area Cleaned

- o 0.8 miles

Previous Cleaning Activity

- o ~54 days

Traffic Estimate (ADT)

- o 39509

Approx. Weight of Recovered Sample

- o ~8 lbs.

Description of Sample and COC

- o Fine sediment dominates the sample with a mixture of trash and biogenic material.
- o COC provided on 06.16.2009



ADT : average daily traffic
C : commercial land use
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
SS : street sweeping
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - SS - C - OUT - 2)

Sample ID

- o TAL – SS – C – OUT – 2

Jurisdiction

- o Tallahassee

Land Use Zoning

- o Commercial

Location

- o Monroe Street; Bloxham South to Perkins

Co-ordinates

- o NA

Date and Time (with Previous Dry Hours)

- o 06/12/2009 10:25 AM
- o ~144

Sampling Personnel

- o Mark Heidecker, Geoff Watts

Description of Catchment

Pavement Type

- o Asphalt

Typical Geometry and R/W Section

- o Rolling Hills; Cross Section- Average Slope

Run-on Conditions

- o Used car dealerships, restaurants, small businesses

Drainage Appurtenances in the Catchment Area

- o Curb & Gutter to Curb Inlets

Significant Features that may affect PM, N and P loadings

- o Water main break occurred in the area spreading sediment over a large area

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2008 Elgin Pelican P

Dimensions of Area Cleaned

- o 0.9 miles

Previous Cleaning Activity

- o ~54 days

Traffic Estimate (ADT)

- o 20349

Approx. Weight of Recovered Sample

- o ~15 lbs.

Description of Sample and COC

- o Sample consists of mainly clay-based sediment and a light amount of biogenic material.
- o COC provided on 06.16.2009



ADT : average daily traffic
C : commercial land use
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
SS : street sweeping
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - SS - C - OUT - 3)

Sample ID

- o TAL – SS – C – OUT – 3

Jurisdiction

- o Tallahassee

Land Use Zoning

- o Commercial

Location

- o Monroe Street, Magnolia south to Orange Ave.

Co-ordinates

- o NA

Date and Time (with Previous Dry Hours)

- o 06/12/2009 10:17 AM
- o ~144

Sampling Personnel

- o Mark Heidecker, Geoff Watts

Description of Catchment

Pavement Type

- o Asphalt

Typical Geometry and R/W Section

- o Rolling Hills; Cross Section- Average Slope

Run-on Conditions

- o Auto repairs, restaurants, small businesses

Drainage Appurtenances in the Catchment Area

- o Curb & Gutter to Curb Inlets

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description if Sweeping Equipment

- o 2008 Elgin Pelican P

Dimensions of Area Cleaned

- o 0.5 miles

Previous Cleaning Activity

- o ~54 days

Traffic Estimate (ADT)

- o 22589

Approx. Weight of Recovered Sample

- o ~5 lbs.

Description of Sample and COC

- o Fine sediment dominates the sample with a mixture of trash and biogenic material.
- o COC provided on 06.16.2009



ADT : average daily traffic
C : commercial land use
COC : chain of custody
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
OUT : outside reclaimed water area
R/W : right of way
SS : street sweeping
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - SS - H - OUT - 1)

Sample ID

- o TAL – SS – H – OUT – 1

Jurisdiction

- o Tallahassee

Land Use Zoning

- o Arterial roadway

Location

- o Old Bainbridge road between Volusia and Georgia streets

Co-ordinates

- o NA

Date and Time (with Previous Dry Hours)

- o 06/12/2009 10:10 AM
- o ~144

Sampling Personnel

- o Mark Heidecker, Geoff Watts

Description of Catchment

Pavement Type

- o Asphalt

Typical Geometry and R/W Section

- o Rolling Hills; Cross Section- Average Slope

Run-on Conditions

- o Small businesses, schools, apartment complexes

Drainage Appurtenances in the Catchment Area

- o Curb & Gutter to Curb Inlets

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o 50/50 mix of Anthropogenic/Biogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2008 Elgin Pelican P

Dimensions of Area Cleaned

- o 0.8 miles

Previous Cleaning Activity

- o ~54 days

Traffic Estimate (ADT)

- o 14886

Approx. Weight of Recovered Sample

- o ~10 lbs.

Description of Sample and COC

- o Equal mix of anthropogenic and biogenic material
- o COC provided on 06.16.2009



ADT : average daily traffic
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - SS - H - OUT - 2)

Sample ID

- o TAL – SS – H – OUT – 2

Jurisdiction

- o Tallahassee

Land Use Zoning

- o Arterial roadway

Location

- o Meridian road, Tharpe street south to 7th avenue

Co-ordinates

- o NA

Date and Time (with Previous Dry Hours)

- o 06/12/2009 11:00 AM
- o ~144

Sampling Personnel

- o Mark Heidecker, Geoff Watts

Description of Catchment

Pavement Type

- o Asphalt

Typical Geometry and R/W Section

- o Rolling Hills; Cross Section- Average Slope

Run-on Conditions

- o Churches, single family homes, apartment complexes

Drainage Appurtenances in the Catchment Area

- o Curb & Gutter to Curb Inlets

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Biogenic

Reclaimed Water Application

- o No

Description if Sweeping Equipment

- o 2008 Elgin Pelican P

Dimensions of Area Cleaned

- o 0.4 miles

Previous Cleaning Activity

- o ~54 days

Traffic Estimate (ADT)

- o 7460

Approx. Weight of Recovered Sample

- o ~4 lbs.

Description of Sample and COC

- o Mainly biogenic with moderate amount of anthropogenic material
- o COC provided on 06.16.2009



ADT : average daily traffic
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - SS - H - OUT - 3)

Sample ID

- o TAL – SS – H – OUT – 3

Jurisdiction

- o Tallahassee

Land Use Zoning

- o Arterial roadway

Location

- o Meridian road south, Orange avenue to Magnolia drive

Co-ordinates

- o NA

Date and Time (with Previous Dry Hours)

- o 06/12/2009 11:05 AM
- o ~144

Sampling Personnel

- o Mark Heidecker, Geoff Watts

Description of Catchment

Pavement Type

- o Asphalt

Typical Geometry and R/W Section

- o Rolling Hills; Cross Section- minimal slope subject to pooling

Run-on Conditions

- o Convenience store, family homes, apartment complexes

Drainage Appurtenances in the Catchment Area

- o Curb & Gutter to Curb Inlets

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description if Sweeping Equipment

- o 2008 Elgin Pelican P

Dimensions of Area Cleaned

- o 0.5 miles

Previous Cleaning Activity

- o ~54 days

Traffic Estimate (ADT)

- o 4951

Approx. Weight of Recovered Sample

- o ~10 lbs.

Description of Sample and COC

- o Mainly anthropogenic with light amount of biogenic material
- o COC provided on 06.16.2009



ADT : average daily traffic
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - SS - R - OUT - 1)

Sample ID

- o TAL – SS – R – OUT – 1

Jurisdiction

- o Tallahassee

Land Use Zoning

- o Residential

Location

- o Frenchtown; Brevard, Carolina and Virginia streets between Woodward and Dewey

Co-ordinates

- o NA

Date and Time (with Previous Dry Hours)

- o 06/12/2009 10:37 AM
- o ~144

Sampling Personnel

- o Mark Heidecker, Geoff Watts

Description of Catchment

Pavement Type

- o Asphalt

Typical Geometry and R/W Section

- o Rolling Hills; Cross Section- Average slope

Run-on Conditions

- o Single family residential

Drainage Appurtenances in the Catchment Area

- o Curb & Gutter to Curb Inlets

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2008 Elgin Pelican P

Dimensions of Area Cleaned

- o 1.2 miles

Previous Cleaning Activity

- o ~54 days

Traffic Estimate (ADT)

- o 7928

Approx. Weight of Recovered Sample

- o ~6 lbs.

Description of Sample and COC

- o Fine sediment dominates the sample with a light mix of trash and biogenic materials
- o COC provided on 06.16.2009



ADT : average daily traffic
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - SS - R - OUT - 2)

Sample ID

- o TAL – SS – R – OUT – 2

Jurisdiction

- o Tallahassee

Land Use Zoning

- o Residential

Location

- o Downtown; Call street from Calhoun to Franklin Blvd

Co-ordinates

- o NA

Date and Time (with Previous Dry Hours)

- o 06/12/2009 10:42 AM
- o ~144

Sampling Personnel

- o Mark Heidecker, Geoff Watts

Description of Catchment

Pavement Type

- o Asphalt

Typical Geometry and R/W Section

- o Rolling Hills; Cross Section- Average slope

Run-on Conditions

- o Single family residential, law firms

Drainage Appurtenances in the Catchment Area

- o Curb & Gutter to Curb Inlets

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Biogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o 2008 Elgin Pelican P

Dimensions of Area Cleaned

- o 0.4 miles

Previous Cleaning Activity

- o ~54 days

Traffic Estimate (ADT)

- o 2307

Approx. Weight of Recovered Sample

- o ~1 lbs.

Description of Sample and COC

- o Biogenic materials with a light mix of fine particulate matter
- o COC provided on 06.16.2009



ADT : average daily traffic
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping
TAL : Tallahassee

FIELD INFORMATION - TALLAHASSEE (TAL - SS - R - OUT - 3)

Sample ID

- o TAL – SS – R – OUT – 3

Jurisdiction

- o Tallahassee

Land Use Zoning

- o Residential

Location

- o Myers park country club, Old Fort and Seminole drives between Sarasota and Limbo

Co-ordinates

- o NA

Date and Time (with Previous Dry Hours)

- o 06/12/2009 10:50 AM
- o ~144

Sampling Personnel

- o Mark Heidecker, Geoff Watts

Description of Catchment

Pavement Type

- o Asphalt

Typical Geometry and R/W Section

- o Rolling Hills; Cross Section- Average slope

Run-on Conditions

- o Single family residential

Drainage Appurtenances in the Catchment Area

- o Curb & Gutter to Curb Inlets

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Biogenic

Reclaimed Water Application

- o No

Description if Sweeping Equipment

- o 2008 Elgin Pelican P

Dimensions of Area Cleaned

- o 1.4 miles

Previous Cleaning Activity

- o ~54 days

Traffic Estimate (ADT)

- o 763

Approx. Weight of Recovered Sample

- o ~3 lbs.

Description of Sample and COC

- o Biogenic materials with a light mix of particulate matter
- o COC provided on 06.16.2009



ADT : average daily traffic
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping
TAL : Tallahassee

TAMPA (TPH)

FIELD INFORMATION - TAMPA (TPH - BMP - C - OUT - 1)

Sample identification

- o TPH - BMP - C - OUT – 1

Jurisdiction

- o City of Tampa

Land use zoning

- o Heavy Commercial: Retail shopping complex

Location

- o 8430 N Armenia Avenue

Co-ordinates

- o 28 01' 37.99" N 82 29'03.62" W

Date and time (with previous dry hours)

- o 09/22/2009 3:00PM
- o pdh ~ 42

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o Grassed swale, 5% slope from south

Potential constraints to property access

- o ROW, no constraints

Typical geometry and R/W section

- o No curb and gutter, minimal crown

Run-on conditions

- o Surface runoff from roadway and parking area

Reclaimed water application

- o No

Basic description of soil type

- o Well-drained sand

Drainage appurtenances in the area

- o No catchments in the immediate area

Significant features influencing PM, N, P load

- o Vegetated, may capture nutrients

Predominant PM, N, and P sources

- o Mixed

Description of BMP

Type

- o Grassed Swale, trapezoidal

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Silt and sand

Condition of PM residuals

- o Semi-moist

Dimensions and volume

- o 4' wide, 1' deep

Description of flow to BMP

- o Direct runoff

Description of sampling method

- o Composite: inflow, center, outflow

Traffic estimate (ADT)

- o 14,004

Approx. weight of recovered sample

- o N/A.

Description of sample and COC

- o Mixed biogenic and anthropogenic
- o COC provided on 09/24/2009



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - BMP - C - OUT - 2)

Sample identification

- o TPH - BMP - C - OUT – 2

Jurisdiction

- o City of Tampa

Land use zoning

- o Industrial/commercial: Towing
company yard

Location

- o 4716 N Lois Avenue (west side)

Co-ordinates

- o 27 59' 16.90" N 82 30'49.12" W

Date and time (with previous dry hours)

- o 09/22/2009 3:30PM
- o pdh ~ 42

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o Grassed swale, 90% vegetated, minimal slope to the north

Potential constraints to property access

- o ROW, no constraints

Typical geometry and R/W section

- o No curb and gutter, minimal crown

Run-on conditions

- o Surface runoff from roadway and businesses

Reclaimed water application

- o No

Basic description of soil type

- o Unknown

Drainage appurtenances in the area

- o City of Tampa grate inlets in ROW

Significant features influencing PM, N, P load

- o Vegetated, may capture nutrients

Predominant PM, N, and P sources

- o Mixed

Description of BMP

Type

- o Grassed Ditch, v-bottom

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Vegetated

Condition of PM residuals

- o Semi-moist

Dimensions and volume

- o 10' wide, 3' deep

Description of flow to BMP

- o Direct runoff

Description of sampling method

- o Composite: inflow, center, outflow

Traffic estimate (ADT)

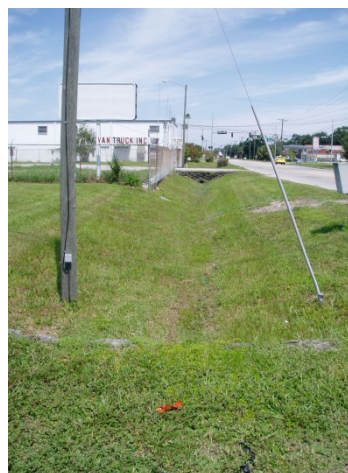
- o 12,827

Approx. weight of recovered sample

- o N/A.

Description of sample and COC

- o Mixed biogenic and anthropogenic
- o COC provided on 09/24/2009



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - BMP - C - OUT - 3)

Sample identification

- o TPH - BMP - C - OUT -3

Jurisdiction

- o City of Tampa

Land use zoning

- o Open Space: Al Lopez Park

Location

- o 4602 N Himes Avenue. Swale between south pond and north pond

Co-ordinates

- o 27 59' 17.05" N 82 30'09.10" W

Date and time (with previous dry hours)

- o 09/23/2009 9:28AM
- o pdh ~ 14

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o Grassed ditch, 50% vegetated, minimal slope to the north

Potential constraints to property access

- o ROW, no constraints

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Drainage from stormwater pond – receives runoff from commercial/industrial areas

Reclaimed water application

- o No

Basic description of soil type

- o Well-drained

Drainage appurtenances in the area

- o N/A

Significant features influencing PM, N, P load

- o Vegetated, may capture nutrients; pond upstream

Predominant PM, N, and P sources

- o Mixed

Description of BMP

Type

- o Grassed Ditch, trapezoidal

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Vegetated

Condition of PM residuals

- o Semi-moist

Dimensions and volume

- o 25' wide, 3' deep

Description of flow to BMP

- o From stormwater retention pond

Description of sampling method

- o Composite near outfall from stormwater retention pond

Traffic estimate (ADT)

- o 15,064 at Himes Avenue

Approx. weight of recovered sample

- o N/A.

Description of sample and COC

- o Mixed biogenic and anthropogenic
- o COC provided on 09/24/2009



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - BMP - H - OUT - 1)

Sample identification

- o TPH - BMP - H - OUT -1

Jurisdiction

- o City of Tampa

Land use zoning

- o Highway: Florida Avenue (4-lane arterial highway). Retail, restaurants

Location

- o 8100 N Florida Avenue

Co-ordinates

- o 28 01' 16.90" N 82 27'34.66" W

Date and time (with previous dry hours)

- o 09/23/2009 1:07PM
- o pdh ~ 17

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 10% tree canopy, 85% impervious

Potential constraints to property access

- o ROW, no constraints

Typical geometry and R/W section

- o Curb and gutter, moderate crown

Run-on conditions

- o Street (gutter) flow from catch basins

Reclaimed water application

- o No

Basic description of soil type

- o Well-drained

Drainage appurtenances in the area

- o FDOT standard, curb inlets

Significant features influencing PM, N, P load

- o Sediment sump (BMP)

Predominant PM, N, and P sources

- o Anthropogenic

Description of BMP

Type

- o Sediment sump

Approximate age

- o ~5 years

Previous cleaning activity

- o Unknown

Condition

- o Dry

Condition of PM residuals

- o Semi-moist

Dimensions and volume

- o 6' W x 50' L x 6' D

Description of flow to BMP

- o Exclusively from both directions of Florida Avenue

Description of sampling method

- o Composite

Traffic estimate (ADT)

- o 30,965

Approx. weight of recovered sample

- o N/A.

Description of sample and COC

- o Anthropogenic
- o COC provided on 09/24/2009



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - BMP - H - OUT - 2)

Sample identification

- o TPH - BMP - H - OUT -2

Jurisdiction

- o City of Tampa

Land use zoning

- o Commercial and Highway: City of Tampa Pump Station

Location

- o 3317 S West Shore Boulevard

Co-ordinates

- o 27 54' 52.76" N 82 31' 36.32" W

Date and time (with previous dry hours)

- o 09/23/2009 10:50AM
- o pdh ~ 18

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 25% tree canopy, 75% impervious groundcover

Potential constraints to property access

- o ROW, no constraints

Typical geometry and R/W section

- o No curb, minimal crown

Run-on conditions

- o Street flow from catch basins

Reclaimed water application

- o No

Basic description of soil type

- o Well-drained

Drainage appurtenances in the area

- o COT curb and grate inlet mix

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Mixed

Description of BMP

Type

- o Vegetated Ditch

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Dry

Condition of PM residuals

- o Semi-moist

Dimensions and volume

- o 6' W x 50' L x 2' D

Description of flow to BMP

- o COT stormwater pipe to ditch

Description of sampling method

- o Composite: inflow, center, outflow

Traffic estimate (ADT)

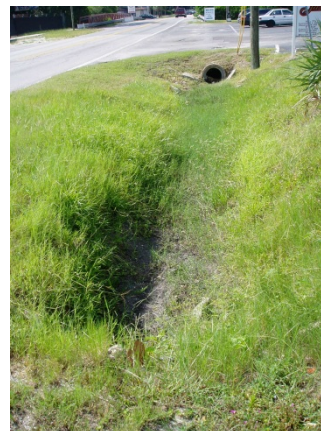
- o 22,039

Approx. weight of recovered sample

- o N/A.

Description of sample and COC

- o Mixed
- o COC provided on 09/24/2009



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - BMP - H - OUT - 3)

Sample identification

- o TPH - BMP - H - OUT -3

Jurisdiction

- o City of Tampa

Land use zoning

- o Commercial and Highway: Diocese of St. Petersburg Church and school

Location

- o SE corner or Himes Ave/Hillsborough Ave

Co-ordinates

- o 27 59' 45.24" N 82 30'00.14" W

Date and time (with previous dry hours)

- o 09/23/2009 2:00PM
- o pdh ~ 18

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 105% tree canopy, 100% vegetation in ditch

Potential constraints to property access

- o ROW, no constraints

Typical geometry and R/W section

- o Curb and gutter, moderate crown

Run-on conditions

- o Catch basins along Hillsborough Avenue

Reclaimed water application

- o No

Basic description of soil type

- o Well-drained

Drainage appurtenances in the area

- o FDOT curb inlet cutouts

Significant features influencing PM, N, P load

- o Vegetated ditch

Predominant PM, N, and P sources

- o Biogenic

Description of BMP

Type

- o Vegetated Ditch

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Dry

Condition of PM residuals

- o Semi-moist

Dimensions and volume

- o 20' W x 250' L x 3' D

Description of flow to BMP

- o Curb inlet cutouts to ditch

Description of sampling method

- o Composite: inflow, center, outflow

Traffic estimate (ADT)

- o 58,743

Approx. weight of recovered sample

- o N/A.

Description of sample and COC

- o Biogenic
- o COC provided on 09/24/2009



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - BMP - R - OUT - 1)

Sample identification

- o TPH - BMP - R - OUT -1

Jurisdiction

- o City of Tampa

Land use zoning

- o Multi-family residential

Location

- o 2808 N Kinyon Avenue

Co-ordinates

- o 27 58' 10.95 N 82 28'33.10" W

Date and time (with previous dry hours)

- o 09/22/2009 3:10PM
- o pdh ~ 41

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 50% tree canopy, 50% grass cover, 40% impervious

Potential constraints to property access

- o ROW, no constraints

Typical geometry and R/W section

- o No curb, minimal crown

Run-on conditions

- o Flow predominantly from street flow and catch basins

Reclaimed water application

- o No

Basic description of soil type

- o Well-drained

Drainage appurtenances in the area

- o City of Tampa, typical curb inlet

Significant features influencing PM, N, P load

- o Vegetated, may capture nutrients

Predominant PM, N, and P sources

- o Biogenic dominant

Description of BMP

Type

- o Vegetated Swale

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Leaves, biogenic material

Condition of PM residuals

- o Semi-moist

Dimensions and volume

- o 6' W x 2' D

Description of flow to BMP

- o From street and catch basins

Description of sampling method

- o Composite: inflow, center, outflow points

Traffic estimate (ADT)

- o 1410

Approx. weight of recovered sample

- o N/A.

Description of sample and COC

- o Biogenic
- o COC provided on 09/24/2009



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - BMP - R - OUT - 2)

Sample identification

- o TPH - BMP - R - OUT -2

Jurisdiction

- o City of Tampa

Land use zoning

- o Multi-family residential

Location

- o 2604 E Osborne Avenue

Co-ordinates

- o 27 59' 21.05 N 82 25'46.38" W

Date and time (with previous dry hours)

- o 09/22/2009 1:40PM
- o pdh ~ 40

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 30% tree canopy, 70% grass cover

Potential constraints to property access

- o ROW, no constraints

Typical geometry and R/W section

- o N/A

Run-on conditions

- o From stormwater ditch and catchments

Reclaimed water application

- o No

Basic description of soil type

- o Well-drained

Drainage appurtenances in the area

- o City of Tampa, grate inlets and ditch segment

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Mixed

Description of BMP

Type

- o Retention pond, typically dry but does discharge

Approximate age

- o ~30 years

Previous cleaning activity

- o Unknown

Condition

- o Dry, mud bottom

Condition of PM residuals

- o Moist

Dimensions and volume

- o 275' x 275' x 10' deep

Description of flow to BMP

- o From ditch and catch basins

Description of sampling method

- o Composite: inflow, corners, and outflow points

Traffic estimate (ADT)

- o 2,581

Approx. weight of recovered sample

- o N/A.

Description of sample and COC

- o Mixed
- o COC provided on 09/24/2009



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - BMP - R - OUT - 3)

Sample identification

- o TPH - BMP - R - OUT -3

Jurisdiction

- o City of Tampa

Land use zoning

- o Multi-family residential

Location

- o 2709 E 20th Street

Co-ordinates

- o 27 58' 12.02 N 82 25'44.72" W

Date and time (with previous dry hours)

- o 09/22/2009 2:00PM
- o pdh ~ 40

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 30% tree canopy, 30% grass cover

Potential constraints to property access

- o ROW, no constraints

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Street runoff and discharge flow from other stormwater ponds

Reclaimed water application

- o No

Basic description of soil type

- o Well-drained

Drainage appurtenances in the area

- o City of Tampa, grate inlets

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Mixed

Description of BMP

Type

- o Retention pond, typically dry but can discharge

Approximate age

- o ~30 years

Previous cleaning activity

- o Unknown

Condition

- o Dry, vegetated bottom

Condition of PM residuals

- o Moist

Dimensions and volume

- o 9 acre-feet. 380' x 275'

Description of flow to BMP

- o From upstream ponds and catchments

Description of sampling method

- o Composite: inflow, center, and corners points

Traffic estimate (ADT)

- o 4,916

Approx. weight of recovered sample

- o N/A.

Description of sample and COC

- o Mixed
- o COC provided on 09/24/2009



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - CB - C - OUT - 1)

Sample identification

- o TPH – CB – C – OUT – 1

Jurisdiction

- o Tampa

Land use zoning

- o Commercial

Location

- o 4317 W El Prado Boulevard

Co-ordinates

- o 27 54' 42.40" N and 82 31'04.00" W

Date and time (with previous dry hours)

- o 9/22/2009 9:57 AM

- o pdh ~ 36

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 90% impervious

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Minimal slope

Run-on conditions

- o Retail commercial, strip mall, parking lot, and street

Reclaimed water application

- o No

Basic description of soil type

- o Sand

Drainage appurtenances in the area

- o City of Tampa typical curb inlet

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Curb inlet

Approximate age

- o 15 years

Previous cleaning activity

- o Unknown

Condition

- o Granular silt from roadway

Condition of PM residuals

- o Semi-moist

Dimensions and volume

- o 3 ft (w) x 4 ft (d) x 3 ft (l)

Description of flow to catch basin

- o Direct runoff

Description of sampling method

- o Composite: center and four corners

Traffic estimate (ADT)

- o 4009

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Unknown

- o COC provided on 9/24/2009



ADT : average daily traffic

C : commercial land use

CB : catch basin

COC : chain of custody

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - CB - C - OUT - 2)

Sample identification

- o TPH – CB – C – OUT – 2

Jurisdiction

- o Tampa

Land use zoning

- o Heavy commercial

Location

- o 615 Channelside Drive

Co-ordinates

- o 27 56' 36.56" N and 82 26' 54.04" W

Date and time (with previous dry hours)

- o 9/23/2009 11:15 AM

- o pdh ~ 13

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 100% impervious

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Minimal slope

Run-on conditions

- o Retail commercial, shopping/entertainment complex, parking lot, and rooftop drainage

Reclaimed water application

- o No

Basic description of soil type

- o Unknown (100% impervious area)

Drainage appurtenances in the area

- o FDOT typical curb inlet

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Curb inlet

Approximate age

- o 10 years

Previous cleaning activity

- o Unknown

Condition

- o Silt and anthropogenic material

Condition of PM residuals

- o Dry

Dimensions and volume

- o 4 ft (w) x 5 ft (d) x 4 ft (l) Approx.

Description of flow to catch basin

- o Direct runoff

Description of sampling method

- o Composite: center and four corners

Traffic estimate (ADT)

- o 13652

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Unknown
- o COC provided on 09/24/2009



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - CB - C - OUT - 3)

Sample identification

- o TPH – CB – C – OUT – 3

Jurisdiction

- o Tampa

Land use zoning

- o Heavy commercial

Location

- o 1600 N 16th Street

Co-ordinates

- o 27 57' 32.23" N and 82 26'30.33" W

Date and time (with previous dry hours)

- o 9/22/2009 2:34 PM

- o pdh ~ 40

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 8% impervious

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 7% slope from North

Run-on conditions

- o Parking lot rooftop, and street flow

Reclaimed water application

- o No

Basic description of soil type

- o Well-drained sand

Drainage appurtenances in the area

- o City of Tampa typical curb inlet

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Curb inlet

Approximate age

- o 5 years

Previous cleaning activity

- o Unknown

Condition

- o Silt and anthropogenic material

Condition of PM residuals

- o Moist

Dimensions and volume

- o 3 ft (w) x 4 ft (d) x 4 ft (l)

Description of flow to catch basin

- o Direct runoff

Description of sampling method

- o Composite: center and four corners

Traffic estimate (ADT)

- o 4913

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Unknown

- o COC provided on 9/24/2009



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - CB - H - OUT - 1)

Sample identification

- o TPH – CB – H – OUT – 1

Jurisdiction

- o Tampa

Land use zoning

- o Light commercial

Location

- o 2501 S MacDill Avenue

Co-ordinates

- o 27 55' 25.30" N and 82 29'36.49" W

Date and time (with previous dry hours)

- o 9/23/2009 1:04 PM

- o pdh ~ 15

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 15% tree canopy and 85% impervious

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Moderate crown

Run-on conditions

- o Rooftop drainage

Reclaimed water application

- o No

Basic description of soil type

- o Well-drained

Drainage appurtenances in the area

- o City of Tampa grate inlet

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Mixed biogenic and anthropogenic

Description of catch basin

Type

- o City of Tampa standard curb inlet

Approximate age

- o ~30+ years

Previous cleaning activity

- o Unknown

Condition

- o Dry silt

Condition of PM residuals

- o Dry

Dimensions and volume

- o 3 ft (w) x 4 ft (d) x 4 ft (l)

Description of flow to catch basin

- o From immediate impervious area

Description of sampling method

- o Composite: center and four corners

Traffic estimate (ADT)

- o 18615

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Unknown

- o COC provided on 09/24/2009



ADT : average daily traffic

CB : catch basin

COC : chain of custody

H : highway land use

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

OUT : outside reclaimed water area

R/W : right of way

TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - CB - H - OUT - 2)

Sample identification

- o TPH – CB – H – OUT – 2

Jurisdiction

- o Tampa

Land use zoning

- o Highway

Location

- o 8101 N Florida Avenue

Co-ordinates

- o 28 01' 17.41" N and 82 27'33.91" W

Date and time (with previous dry hours)

- o 9/22/2009 10:30 AM

- o pdh ~ 36

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 10% tree canopy and 85% impervious

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Moderate crown

Run-on conditions

- o Street flow, retail, and restaurants

Reclaimed water application

- o No

Basic description of soil type

- o Well-drained

Drainage appurtenances in the area

- o FDOT standard curb inlet

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o FDOT standard curb inlet

Approximate age

- o ~5 years

Previous cleaning activity

- o Unknown

Condition

- o Dry granular

Condition of PM residuals

- o Dry

Dimensions and volume

- o 3 ft (w) x 3 ft (d) x 5 ft (l)

Description of flow to catch basin

- o Exclusively from both directions of Florida Avenue

Description of sampling method

- o Composite: center and four corners

Traffic estimate (ADT)

- o 30965

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Unknown
- o COC provided on 09/24/2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - CB - H - OUT - 3)

Sample identification

- o TPH – CB – H – OUT – 3

Jurisdiction

- o Tampa

Land use zoning

- o Highway

Location

- o 2402 W Lemon Street

Co-ordinates

- o 27 57' 02.19" N and 82 29'06.69" W

Date and time (with previous dry hours)

- o 9/23/2009 2:15 PM

- o pdh ~ 16

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 10% tree canopy, 10% impervious, and 75% grass cover

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Moderate crown

Run-on conditions

- o Street flow, mixed residential, and ditch from west

Reclaimed water application

- o No

Basic description of soil type

- o Well-drained

Drainage appurtenances in the area

- o City of Tampa standard curb inlet

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Mixed

Description of catch basin

Type

- o COT standard curb inlet

Approximate age

- o 10 years

Previous cleaning activity

- o Unknown

Condition

- o Moist, organic

Condition of PM residuals

- o Moist

Dimensions and volume

- o 2 ft (w) x 2 ft (d) x 3 ft (l)

Description of flow to catch basin

- o From Armenia Avenue from south and ditch and street runoff from west

Description of sampling method

- o Composite: center and four corners

Traffic estimate (ADT)

- o 11299

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Unknown
- o COC provided on 09/24/2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - CB - R - OUT - 1)

Sample identification

- o TPH – CB – R – OUT – 1

Jurisdiction

- o Tampa

Land use zoning

- o Single family residential

Location

- o 1111 W Charter Street, NW corner of Charter/Harding

Co-ordinates

- o 27 56' 25.07 N and 82 30'57.75" W

Date and time (with previous dry hours)

- o 9/22/2009 1:24 PM
- o pdh ~ 40

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 60% tree canopy and 50% grass cover

Potential constraints to property access

- o No

Typical geometry and R/W section

- o No curb or gutter and minimal crown

Run-on conditions

- o Lateral street flow from residential neighborhood

Reclaimed water application

- o No

Basic description of soil type

- o Well drained

Drainage appurtenances in the area

- o City of Tampa typical curb inlet

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Biogenic

Description of catch basin

Type

- o Curb inlet

Approximate age

- o 30+ years

Previous cleaning activity

- o Unknown

Condition

- o unknown

Condition of PM residuals

- o Semi-moist

Dimensions and volume

- o 4 ft (d) x 3 ft (l) x 5 ft (w)

Description of flow to catch basin

- o Sheet and gutter flow

Description of sampling method

- o Composite taken from four corners and center

Traffic estimate (ADT)

- o ~300

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Leaves and biogenic material
- o COC provided on 09/24/2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - CB - R - OUT - 2)

Sample identification

- o TPH – CB – R – OUT – 2

Jurisdiction

- o Tampa

Land use zoning

- o Single family residential

Location

- o 2302 E 10th Avenue

Co-ordinates

- o 27 57' 44.87 N and 82 26'00.13" W

Date and time (with previous dry hours)

- o 9/23/2009 9:02 AM
- o pdh ~ 13

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 25% tree canopy and 50% grass cover

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Low granite curb

Run-on conditions

- o Street flow and rooftop drainage from residential neighborhood

Reclaimed water application

- o No

Basic description of soil type

- o Well drained

Drainage appurtenances in the area

- o City of Tampa typical curb inlet

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Biogenic dominant

Description of catch basin

Type

- o City of Tampa standard curb inlet

Approximate age

- o 10+ years

Previous cleaning activity

- o Unknown

Condition

- o unknown

Condition of PM residuals

- o Semi-moist

Dimensions and volume

- o 4 ft (d) x 3 ft (l) x 4 ft (w)

Description of flow to catch basin

- o Lateral street runoff

Description of sampling method

- o Composite taken from four corners and center

Traffic estimate (ADT)

- o ~300

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Leaves and biogenic material
- o COC provided on 09/24/2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - CB - R - OUT - 3)

Sample identification

- o TPH – CB – R – OUT – 3

Jurisdiction

- o Tampa

Land use zoning

- o Single family residential

Location

- o 3206 S Himes Avenue

Co-ordinates

- o 27 54' 56.48 N and 82 30'06.69" W

Date and time (with previous dry hours)

- o 9/22/2009 10:13 AM
- o pdh ~ 36

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 50% tree canopy, 30% impervious, and 70% grass cover

Potential constraints to property access

- o No

Typical geometry and R/W section

- o No curb and minimal crown

Run-on conditions

- o Street flow and rooftop drainage from residential neighborhood

Reclaimed water application

- o No

Basic description of soil type

- o Well drained

Drainage appurtenances in the area

- o City of Tampa typical curb inlet

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Biogenic dominant

Description of catch basin

Type

- o City of Tampa standard curb inlet

Approximate age

- o 25+ years

Previous cleaning activity

- o Unknown

Condition

- o unknown

Condition of PM residuals

- o Semi-moist

Dimensions and volume

- o 4 ft (d) x 3 ft (l) x 4 ft (w)

Description of flow to catch basin

- o Street runoff

Description of sampling method

- o Composite taken from four corners and center

Traffic estimate (ADT)

- o 3315

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Leaves and biogenic material
- o COC provided on 09/24/2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - SS - C - OUT - 1)

Sample ID

- o TPH – SS – C – OUT – 1

Jurisdiction

- o City of Tampa

Land Use Zoning

- o Residential (35%) Light Commercial (65%)

Location

- o Westshore (Route #7)

Co-ordinates

- o 27 56' 15 N 82 31' 27 W

Date and Time (with Previous Dry Hours)

- o 11/09/2009
- o ~288

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Various/Blacktop, concrete

Typical Geometry and R/W Section

- o Minimal crown, varies

Run-on Conditions

- o Lateral street runoff

Drainage Appurtenances in the Catchment Area

- o Curb Inlets, City of Tampa standard

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Neither is predominant

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper

Dimensions of Area Cleaned

- o 10 ft. wide

Previous Cleaning Activity

- o 10/19/2009 (cleaned approximately every 36 days)

Traffic Estimate (ADT)

- o 27882

Approx. Weight of Recovered Sample

- o Unknown

Description of Sample and COC

- o unknown
- o COC provided on 11/12/2009

ADT : average daily traffic

C : commercial land use

COC : chain of custody

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

SS : street sweeping

TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - SS - C - OUT - 2)

Sample ID

- o TPH – SS – C – OUT – 2

Jurisdiction

- o City of Tampa

Land Use Zoning

- o Heavy Commercial

Location

- o Channelside (Route #59)

Co-ordinates

- o 27 56' 58 N 82 26'55 W

Date and Time (with Previous Dry Hours)

- o 11/09/2009

- o ~288

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Blacktop, minimal slope, less than 5 years old

Typical Geometry and R/W Section

- o Minimal crown, varies

Run-on Conditions

- o Rooftop, impervious drainage

Drainage Appurtenances in the Catchment Area

- o FDOT standard curb inlets

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper

Dimensions of Area Cleaned

- o 10 ft. wide

Previous Cleaning Activity

- o 10/6/2009 (cleaned approximately every 36 days)

Traffic Estimate (ADT)

- o 13,652

Approx. Weight of Recovered Sample

- o Unknown

Description of Sample and COC

- o unknown
- o COC provided on 11/12/2009

ADT : average daily traffic

C : commercial land use

COC : chain of custody

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

SS : street sweeping

TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - SS - C - OUT - 3)

Sample ID

- o TPH – SS – C – OUT – 3

Jurisdiction

- o City of Tampa

Land Use Zoning

- o Heavy Commercial

Location

- o Ybor City (Route #20)

Co-ordinates

- o 27 57' 37 N 82 26'17 W

Date and Time (with Previous Dry Hours)

- o 11/09/2009

- o ~288

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Blacktop, minimal slope, less than 2 years old

Typical Geometry and R/W Section

- o Exaggerated crown, varies

Run-on Conditions

- o Rooftop drainage

Drainage Appurtenances in the Catchment Area

- o FDOT standard curb inlets

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper

Dimensions of Area Cleaned

- o 10 ft. wide

Previous Cleaning Activity

- o 11/3/2009 (cleaned approximately every 36 days)

Traffic Estimate (ADT)

- o 19,507

Approx. Weight of Recovered Sample

- o Unknown

Description of Sample and COC

- o unknown
- o COC provided on 11/12/2009

ADT : average daily traffic

C : commercial land use

COC : chain of custody

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

SS : street sweeping

TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - SS - H - OUT - 1)

Sample ID

- o TPH – SS – H – OUT – 1

Jurisdiction

- o City of Tampa

Land Use Zoning

- o Commercial and Highway

Location

- o Dale Mabry/Henderson (Route #8)

Co-ordinates

- o 27 56' 02 N 82 30' 20 W

Date and Time (with Previous Dry Hours)

- o 11/09/2009
- o ~288

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Asphaltic Blacktop and concrete, minimal slope and varying age

Typical Geometry and R/W Section

- o Minimal crown, varies

Run-on Conditions

- o Rooftop drainage, lateral streets and sidewalk/parking lot runoff

Drainage Appurtenances in the Catchment Area

- o Various curb inlets

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o Some

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper

Dimensions of Area Cleaned

- o 10 ft. wide

Previous Cleaning Activity

- o 10/20/2009 (cleaned approximately every 36 days)

Traffic Estimate (ADT)

- o 34,408

Approx. Weight of Recovered Sample

- o Unknown

Description of Sample and COC

- o unknown
- o COC provided on 11/12/2009

ADT : average daily traffic
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - SS - H - OUT - 2)

Sample ID

- o TPH – SS – H – OUT – 2

Jurisdiction

- o City of Tampa

Land Use Zoning

- o Commercial and Highway

Location

- o Kennedy Blvd (Route #57)

Co-ordinates

- o 27 56' 02 N 82 30'20 W

Date and Time (with Previous Dry Hours)

- o 11/09/2009
- o ~288

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Asphaltic Blacktop and concrete,
minimal slope and varying age

Typical Geometry and R/W Section

- o Minimal crown, varies

Run-on Conditions

- o Rooftop drainage, lateral streets and
sidewalk/parking lot runoff

Drainage Appurtenances in the Catchment Area

- o Mostly FDOT-type standard curb inlets

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o None

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper

Dimensions of Area Cleaned

- o 10 ft. wide

Previous Cleaning Activity

- o 11/4/2009 (cleaned approximately every
36 days)

Traffic Estimate (ADT)

- o 52,022

Approx. Weight of Recovered Sample

- o Unknown

Description of Sample and COC

- o unknown
- o COC provided on 11/12/2009

ADT : average daily traffic
COC : chain of custody
H : highway land use
N : nitrogen
OUT : outside reclaimed water area
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - SS - H - OUT - 3)

Sample ID

- o TPH – SS – H – OUT – 3

Jurisdiction

- o City of Tampa

Land Use Zoning

- o Highway

Location

- o State Hwy 60/US 41 (Route #20)

Co-ordinates

- o 27 57' 20 N 82 26'06 W

Date and Time (with Previous Dry Hours)

- o 11/09/2009
- o ~288

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Asphaltic Blacktop and concrete, minimal slope and varying age

Typical Geometry and R/W Section

- o Minimal crown, varies

Run-on Conditions

- o Rooftop drainage, lateral streets

Drainage Appurtenances in the Catchment Area

- o Mostly FDOT-type standard curb inlets

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Anthropogenic

Reclaimed Water Application

- o None

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper

Dimensions of Area Cleaned

- o 10 ft. wide

Previous Cleaning Activity

- o 11/3/2009 (cleaned approximately every 36 days)

Traffic Estimate (ADT)

- o 29,044

Approx. Weight of Recovered Sample

- o Unknown

Description of Sample and COC

- o unknown
- o COC provided on 11/12/2009

ADT : average daily traffic

COC : chain of custody

H : highway land use

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

SS : street sweeping

TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - SS - R - OUT - 1)

Sample ID

- o TPH – SS – R – OUT – 1

Jurisdiction

- o City of Tampa

Land Use Zoning

- o Mixed commercial and residential;
majority of sweeper miles are residential

Location

- o David Island (Route #17)

Co-ordinates

- o 27 55' 44 N 82 27'20 W

Date and Time (with Previous Dry Hours)

- o 11/09/2009
- o ~288

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Asphaltic blacktop, good condition, less than 10 years old

Typical Geometry and R/W Section

- o Minimal crown

Run-on Conditions

- o Sidewalk openings and rooftop downspouts

Drainage Appurtenances in the Catchment Area

- o FDOT-type curb inlets

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Mix of leaves and roadway material

Reclaimed Water Application

- o Yes

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper

Dimensions of Area Cleaned

- o 10 ft. wide

Previous Cleaning Activity

- o (cleaned approximately every 36 days)

Traffic Estimate (ADT)

- o 9,294

Approx. Weight of Recovered Sample

- o Unknown

Description of Sample and COC

- o unknown
- o COC provided on 11/12/2009

ADT : average daily traffic

COC : chain of custody

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

SS : street sweeping

TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - SS - R - OUT - 2)

Sample ID

- o TPH – SS – R – OUT – 2

Jurisdiction

- o City of Tampa

Land Use Zoning

- o Residential

Location

- o Sulphur springs neighbourhood (Route #27)

Co-ordinates

- o 28 01' 20 N 82 26'41 W

Date and Time (with Previous Dry Hours)

- o 11/09/2009
- o ~288

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Asphaltic blacktop, good condition, less than 10 years old

Typical Geometry and R/W Section

- o Minimal crown

Run-on Conditions

- o Rooftop downspouts and lateral streets runoff

Drainage Appurtenances in the Catchment Area

- o Curb inlets, City of Tampa standards

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Significant biogenic due to leaf litter

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper

Dimensions of Area Cleaned

- o 10 ft. wide

Previous Cleaning Activity

- o 10/08/2009 (cleaned approximately every 36 days)

Traffic Estimate (ADT)

- o 22,105

Approx. Weight of Recovered Sample

- o Unknown

Description of Sample and COC

- o unknown
- o COC provided on 11/12/2009

ADT : average daily traffic

COC : chain of custody

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

SS : street sweeping

TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - SS - R - OUT - 3)

Sample ID

- o TPH – SS – R – OUT – 3

Jurisdiction

- o City of Tampa

Land Use Zoning

- o Residential

Location

- o Bayshore Beautiful neighbourhood
(Route #4)

Co-ordinates

- o 27 54' 14 N 82 29'48 W

Date and Time (with Previous Dry Hours)

- o 11/09/2009
- o ~288

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Various/ blacktop, concrete, cobblestone

Typical Geometry and R/W Section

- o Minimal crown, varies

Run-on Conditions

- o Lateral streets runoff

Drainage Appurtenances in the Catchment Area

- o Curb inlets, City of Tampa standards

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Significant biogenic due to leaf litter

Reclaimed Water Application

- o No

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper

Dimensions of Area Cleaned

- o 10 ft. wide

Previous Cleaning Activity

- o 10/15/2009 (cleaned approximately every 36 days)

Traffic Estimate (ADT)

- o 22,853

Approx. Weight of Recovered Sample

- o Unknown

Description of Sample and COC

- o unknown
- o COC provided on 11/12/2009

ADT : average daily traffic

COC : chain of custody

N : nitrogen

OUT : outside reclaimed water area

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

SS : street sweeping

TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - BMP - C - IN - 1)

Sample identification

- o TPH - BMP - C - IN - 1

Jurisdiction

- o City of Tampa

Land use zoning

- o Light Commercial; Commercial bank with offices and parking lot

Location

- o 160 N Manhattan Avenue

Co-ordinates

- o 27 56' 43.76" N 82 31'05.32" W

Date and time (with previous dry hours)

- o 07/26/2010 9:13
- o pdh ~ 13

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 50% roadway, 25% vegetation, 25% buildings

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Unknown

Run-on conditions

- o From commercial bankparking lot and minor run-on from Kennedy Blvd.

Reclaimed water application

- o Yes

Basic description of soil type

- o Well drained silt

Drainage appurtenances in the area

- o Vegetated Swale with Concrete Culverts

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Biogenic dominant

Description of BMP

Type

- o Vegetated Swale

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Clean, grasses

Condition of PM residuals

- o Dry, fine composition

Dimensions and volume

- o 8' x 35' swale, 2' deep. 6:1 slope

Description of flow to BMP

- o street flow to inlets and thru pipes

Description of sampling method

- o Composite of sides and bottom swale

Traffic estimate (ADT)

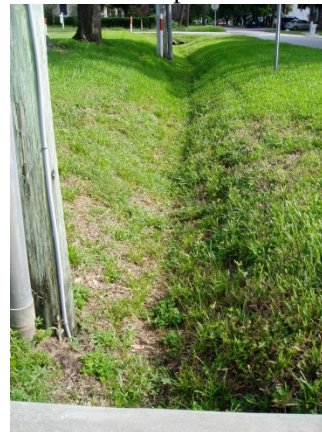
- o 37,566

Approx. weight of recovered sample

- o N/A.

Description of sample and COC

- o Biogenic
- o COC provided 07/28/2010



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - BMP - C - IN - 2)

Sample identification

- o TPH - BMP - C - IN - 2

Jurisdiction

- o City of Tampa

Land use zoning

- o Schools: Public High School

Location

- o 3750 W San Miguel Street

Co-ordinates

- o 27 55' 32.09" N 82 30' 17.90" W

Date and time (with previous dry hours)

- o 07/26/2010 9:45

- o pdh ~ 13

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 60% pervious vegetation, 40% impervious

Potential constraints to property access

- o No

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Pipe from north side of street

Reclaimed water application

- o Yes

Basic description of soil type

- o Moderately drained silt

Drainage appurtenances in the area

- o Mitered end sections, concrete pipe

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Biogenic dominant

Description of BMP

Type

- o Vegetated Swale

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Heavily vegetated

Condition of PM residuals

- o Moist, heavy.

Dimensions and volume

- o 6' by 400'. 3' deep

Description of flow to BMP

- o Upstream swale segments, pipe from north side of street

Description of sampling method

- o Composite of sides and bottom swale

Traffic estimate (ADT)

- o <500 on immediate roadway

Approx. weight of recovered sample

- o N/A.

Description of sample and COC

- o Biogenic
- o COC provided 07/28/2010

ADT : average daily traffic

BMP : best management practice

C : commercial land use

COC : chain of custody

IN : inside reclaimed water area

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - BMP - C - IN - 3)

Sample identification

- o TPH - BMP - C - IN - 3

Jurisdiction

- o City of Tampa

Land use zoning

- o Light Industrial: Warehouse facility

Location

- o 4912 W Grace Street

Co-ordinates

- o 27 57' 11.73" N 82 31'36.82" W

Date and time (with previous dry hours)

- o 07/26/2010 9:45

- o pdh ~ 13

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 20% tree canopy, 75% impervious roadway and roof, 10% grassed

Potential constraints to property access

- o No

Typical geometry and R/W section

- o No curb and gutter

Run-on conditions

- o Direct from street sheet flow and upstream connections

Reclaimed water application

- o Yes

Basic description of soil type

- o Silt

Drainage appurtenances in the area

- o Concrete pipe sections connect to other swales

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Biogenic dominant

Description of BMP

Type

- o Grassed Swale

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Light vegetation cover

Condition of PM residuals

- o Dry, heavy

Dimensions and volume

- o 10' by 130'. 3' deep

Description of flow to BMP

- o Direct from street and upstream connections

Description of sampling method

- o N/A

Traffic estimate (ADT)

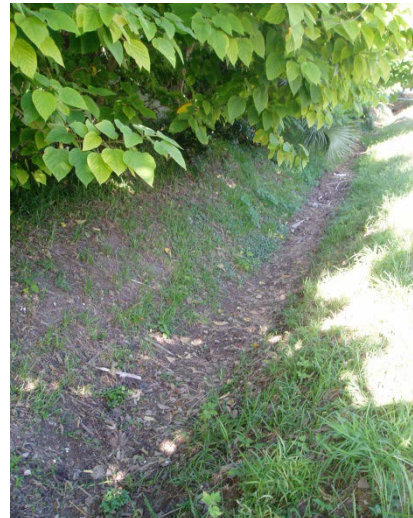
- o ~500

Approx. weight of recovered sample

- o N/A.

Description of sample and COC

- o Biogenic
- o COC provided on 07/28/2010



ADT : average daily traffic
BMP : best management practice
C : commercial land use
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - BMP - H - IN -1)

Sample identification

- o TPH - BMP - H - IN - 1

Jurisdiction

- o City of Tampa

Land use zoning

- o Transportation: Lois Avenue, arterial highway. Also accepts drainage from Interstate 275

Location

- o 939 N Lois Avenue

Co-ordinates

- o 27 57' 07.63" N 82 30' 47.42" W

Date and time (with previous dry hours)

- o 07/26/2010 9:03
- o pdh ~ 13

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 50% vegetated grass, 50% impervious roadway

Potential constraints to property access

- o FDOT

Typical geometry and R/W section

- o N/A

Run-on conditions

- o Accepts flow from I-275, accepts flow through the Lemon Street ditch drainage system

Reclaimed water application

- o Yes

Basic description of soil type

- o Primarily sand

Drainage appurtenances in the area

- o Mitered end sections. Upstream box culvert under I-275

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Biogenic dominant

Description of BMP

Type

- o Drainage canal

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Visible flow cutout in center of channel

Condition of PM residuals

- o Primarily sand

Dimensions and volume

- o 20' by 300'. 10' deep

Description of flow to BMP

- o From upstream box culvert and inlets on I-275

Description of sampling method

- o Composite, 3 bottom samples and 4 side slope samples

Traffic estimate (ADT)

- o 175,500 (I-275)

Approx. weight of recovered sample

- o N/A.

Description of sample and COC

- o Biogenic
- o COC provided 07/28/2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - BMP - H - IN -2)

Sample identification

- o TPH - BMP - H - IN - 2

Jurisdiction

- o City of Tampa

Land use zoning

- o Transportation: Lois Avenue – 4-lane arterial highway

Location

- o 450 N Lois Avenue

Co-ordinates

- o 27 56' 53.45" N 82 30'49.82" W

Date and time (with previous dry hours)

- o 07/26/2010 9:25
- o pdh ~ 13

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 25% pervious, 75% impervious roadways and roof structures

Potential constraints to property access

- o None, city right of way

Typical geometry and R/W section

- o Not applicable to drainage

Run-on conditions

- o Upstream 18" pipe from Gray Street

Reclaimed water application

- o Yes

Basic description of soil type

- o Primarily sand, well drained

Drainage appurtenances in the area

- o Mitered end section and concrete pipe system downstream

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Biogenic dominant

Description of BMP

Type

- o Vegetated ditch system

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Minor accumulation of yard waste

Condition of PM residuals

- o Primarily sand

Dimensions and volume

- o 20' by 200'. 3' deep

Description of flow to BMP

- o Drainage through upstream pipe system from Gray Street. Also, inlet from Lois Avenue drainage directly to ditch.

Description of sampling method

- o Composite, 3 bottom and 2 side slope

Traffic estimate (ADT)

- o 22,920

Approx. weight of recovered sample

- o N/A.

Description of sample and COC

- o Biogenic
- o COC provided 07/28/2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - BMP - H - IN -3)

Sample identification

- o TPH - BMP - H - IN - 3

Jurisdiction

- o City of Tampa

Land use zoning

- o Transportation: 2-lane arterial connector highway

Location

- o 1532 S Westshore Boulevard

Co-ordinates

- o 27 55' 44.83" N 82 31' 27.48" W

Date and time (with previous dry hours)

- o 07/27/2010 9:35
- o pdh ~ 37

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 75% tree canopy, 50% impervious (roadways, roofs)

Potential constraints to property access

- o None

Typical geometry and R/W section

- o Cambered crown. No curb and gutter on the roadway

Run-on conditions

- o Mostly direct from Westshore Boulevard

Reclaimed water application

- o Yes

Basic description of soil type

- o Sand

Drainage appurtenances in the area

- o Concrete piping underneath cross streets connects this swale BMP to additional swale lengths

Significant features influencing PM, N, P load

- o Very compact, steep slope

Predominant PM, N, and P sources

- o Biogenic dominant

Description of BMP

Type

- o Grassed swale

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Grassed. Minimal exposure in bottom

Condition of PM residuals

- o Organics and sand

Dimensions and volume

- o 6' by 30'. 3' deep

Description of flow to BMP

- o From street and upstream swales

Description of sampling method

- o Composite, 3 bottom and 2 side slope

Traffic estimate (ADT)

- o 16,480

Approx. weight of recovered sample

- o N/A.

Description of sample and COC

- o Biogenic
- o COC provided on 07/28/2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
H : highway land use
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - BMP - R - IN -1)

Sample identification

- o TPH - BMP - R - IN - 1

Jurisdiction

- o City of Tampa

Land use zoning

- o Multi-family residential

Location

- o 4400 W Swann Circle

Co-ordinates

- o 27 54' 14.50" N 82 31'13.60" W

Date and time (with previous dry hours)

- o 11/4/09 9:12

- o pdh ~ 206

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 75% tree canopy, 15% impervious

Potential constraints to property access

- o Parkland, no constraints

Typical geometry and R/W section

- o N/A, sample was collected from a swale within a park.

Run-on conditions

- o Flow predominantly from street flow and catch basins

Reclaimed water application

- o Yes

Basic description of soil type

- o Moderately drained

Drainage appurtenances in the area

- o Dry swale collecting runoff from City of Tampa typical catch basins

Significant features influencing PM, N, P load

- o Vegetated sides and bottom, may capture nutrients

Predominant PM, N, and P sources

- o Biogenic dominant

Description of BMP

Type

- o Vegetated swale

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Leaves, biogenic material

Condition of PM residuals

- o Dry

Dimensions and volume

- o 20' W x 6' D

Description of flow to BMP

- o From street and catch basins

Description of sampling method

- o Composite, center and two sides

Traffic estimate (ADT)

- o 2662

Approx. weight of recovered sample

- o N/A.

Description of sample and COC

- o Biogenic
- o COC provided on 11/06/2009



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - BMP - R - IN -2)

Sample identification

- o TPH - BMP - R - IN - 2

Jurisdiction

- o City of Tampa

Land use zoning

- o Multi-family residential

Location

- o 4302 W Beachway Drive

Co-ordinates

- o 27 55' 59.09" N 82 31'06.38" W

Date and time (with previous dry hours)

- o 11/4/09 9:30

- o pdh ~ 206

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 40% tree canopy, 25% impervious

Potential constraints to property access

- o City drainage easement, no constraints

Typical geometry and R/W section

- o N/A, sample was collected from an open canal

Run-on conditions

- o Flow through direct conduit of stormwater pipes

Reclaimed water application

- o Yes

Basic description of soil type

- o Moderately drained

Drainage appurtenances in the area

- o Open canal collecting runoff from City of Tampa typical catch basins

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Biogenic dominant

Description of BMP

Type

- o Open Canal

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Sandy

Condition of PM residuals

- o Moist

Dimensions and volume

- o 25' W x 10' D

Description of flow to BMP

- o Direct from stormwater pipe/box culvert

Description of sampling method

- o Composite, center and two sides

Traffic estimate (ADT)

- o Difficult to determine due to size of contributing drainage area. Approx 4700

Approx. weight of recovered sample

- o N/A.

Description of sample and COC

- o Biogenic
- o COC provided on 11/06/2009



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - BMP - R - IN -3)

Sample identification

- o TPH - BMP - R - IN - 3

Jurisdiction

- o City of Tampa

Land use zoning

- o Single family residential

Location

- o SW corner of W Carmen St and N Clark Avenue

Co-ordinates

- o 27 56' 57.66" N 82 30'42.95" W

Date and time (with previous dry hours)

- o 7/26/10 8:40
- o pdh ~ 13

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 20% tree canopy, 30% impervious

Potential constraints to property access

- o City drainage easement, no constraints

Typical geometry and R/W section

- o N/A, sample was collected from an open canal

Run-on conditions

- o Roof drains, driveways, street runoff

Reclaimed water application

- o Yes

Basic description of soil type

- o Well drained sand

Drainage appurtenances in the area

- o Inlet drop box

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Biogenic dominant

Description of BMP

Type

- o Vegetated Swale

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Good shape, consistent slope, mowed

Condition of PM residuals

- o Sand and silt

Dimensions and volume

- o 6' x 25', 3' deep

Description of flow to BMP

- o Direct runoff into swale system from streets

Description of sampling method

- o Composite of 2 bottom and 2 side slope locations

Traffic estimate (ADT)

- o ~400

Approx. weight of recovered sample

- o N/A.

Description of sample and COC

- o Biogenic
- o COC provided on 07/28/2010



ADT : average daily traffic
BMP : best management practice
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - CB - C - IN - 1)

Sample identification

- o TPH – CB – C – IN – 1

Jurisdiction

- o Tampa

Land use zoning

- o Light commercial

Location

- o 202 E Davis Boulevard

Co-ordinates

- o 27 55' 38.53 N and 82 13.89" W

Date and time (with previous dry hours)

- o 11/5/2009 2:25 PM
- o Pdh ~ 212

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 20% tree canopy and 55% impervious

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Davis Boulevard cambered toward inlet

Run-on conditions

- o Building downspouts, parking lots, and side streets

Reclaimed water application

- o Yes

Basic description of soil type

- o Moderately drained

Drainage appurtenances in the area

- o City of Tampa standard throat inlet

Significant features influencing PM, N, P load

- o Mulched landscaping near catchment

Predominant PM, N, and P sources

- o Anthropogenic and mulch

Description of catch basin

Type

- o Curb inlet

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Heavily loaded

Condition of PM residuals

- o Moist

Dimensions and volume

- o 3 ft (w) x 5 ft (d) x 3 ft (l)

Description of flow to catch basin

- o Sheet and gutter flow

Description of sampling method

- o Composite: center and four corners

Traffic estimate (ADT)

- o 24701

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Unknown
- o COC provided on 11/06/2009



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - CB - C - IN - 2)

Sample identification

- o TPH – CB – C – IN – 2

Jurisdiction

- o Tampa

Land use zoning

- o Light commercial

Location

- o 3900 W Morrison Avenue

Co-ordinates

- o 27 56' 01.96 N and 82 30.49" W

Date and time (with previous dry hours)

- o 11/4/2009 12:05 PM

- o pdh ~ 186

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o < 5% tree canopy and 70% impervious

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Extremely flat roadway

Run-on conditions

- o Small shopping plaza, building
downspouts and parking lot

Reclaimed water application

- o Yes

Basic description of soil type

- o Well drained, sandy

Drainage appurtenances in the area

- o City of Tampa standard throat inlet

Significant features influencing PM, N, P load

- o Grass overgrowth

Predominant PM, N, and P sources

- o Biogenic

Description of catch basin

Type

- o Curb inlet and grate inlet top

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Concrete needs repair

Condition of PM residuals

- o Dry

Dimensions and volume

- o 3 ft (w) x 2 ft (d) x 3 ft (l)

Description of flow to catch basin

- o Sheet and gutter flow

Description of sampling method

- o Composite: center and four corners

Traffic estimate (ADT)

- o 2691

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Unknown

- o COC provided on 11/06/2009



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - CB - C - IN - 3)

Sample identification

- o TPH – CB – C – IN – 3

Jurisdiction

- o Tampa

Land use zoning

- o Light commercial

Location

- o 670 S Fremont Avenue

Co-ordinates

- o 27 56' 14.70 N and 82 28'44.09" W

Date and time (with previous dry hours)

- o 11/4/2009 10:45 AM

- o pdh ~ 184

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o < 10% tree canopy and 70% impervious

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Heavy camber toward inlet

Run-on conditions

- o Retail bank, building downspouts and parking lot

Reclaimed water application

- o Yes

Basic description of soil type

- o Well drained, sandy

Drainage appurtenances in the area

- o City of Tampa curb inlet

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Biogenic

Description of catch basin

Type

- o Curb inlet

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Unknown

Condition of PM residuals

- o Dry

Dimensions and volume

- o 3 ft (w) x 4 ft (d) x 3 ft (l)

Description of flow to catch basin

- o Sheet and gutter flow

Description of sampling method

- o Composite: center and four corners

Traffic estimate (ADT)

- o 14185

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Unknown
- o COC provided on 11/06/2009



ADT : average daily traffic
C : commercial land use
CB : catch basin
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - CB - H - IN - 1)

Sample identification

- o TPH – CB – H – IN – 1

Jurisdiction

- o Tampa

Land use zoning

- o Mixed commercial

Location

- o 3100 W Horatio

Co-ordinates

- o 27 56' 23.66" N and 82 29'36.01" W

Date and time (with previous dry hours)

- o 11/5/2009 2:10 PM

- o pdh ~ 212

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 20% tree canopy and 75% impervious

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Granite curbing

Run-on conditions

- o Downspouts, parking lots, side streets, retail and commercial business

Reclaimed water application

- o Yes

Basic description of soil type

- o Moderately-drained

Drainage appurtenances in the area

- o City of Tampa standard curb inlet

Significant features influencing PM, N, P load

- o High curbing

Predominant PM, N, and P sources

- o Mixed

Description of catch basin

Type

- o Curb inlet

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Dry

Condition of PM residuals

- o Moist

Dimensions and volume

- o 3 ft (w) x 5 ft (d) x 3 ft (l)

Description of flow to catch basin

- o Street and gutter flow

Description of sampling method

- o Composite: center and four corners

Traffic estimate (ADT)

- o 18615

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Unknown

- o COC provided on 11/06/2009



ADT : average daily traffic

CB : catch basin

COC : chain of custody

H : highway land use

IN : inside reclaimed water area

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - CB - H - IN - 2)

Sample identification

- o TPH – CB – H – IN – 2

Jurisdiction

- o Tampa

Land use zoning

- o Light commercial

Location

- o 2504 W Azeele Street

Co-ordinates

- o 27 56' 27.79" N and 82 29'07.75" W

Date and time (with previous dry hours)

- o 11/5/2009 2:14 PM

- o pdh ~ 212

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 25% tree canopy and 50% impervious

Potential constraints to property access

- o No

Typical geometry and R/W section

- o One way street and high curbing

Run-on conditions

- o Downspouts, parking lots, side streets, and small office conversions

Reclaimed water application

- o Yes

Basic description of soil type

- o Moderately-drained

Drainage appurtenances in the area

- o City of Tampa standard curb inlet

Significant features influencing PM, N, P load

- o High curbing

Predominant PM, N, and P sources

- o Biogenic

Description of catch basin

Type

- o Curb inlet

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Okay

Condition of PM residuals

- o Dry

Dimensions and volume

- o 3 ft (w) x 4 ft (d) x 2 ft (l)

Description of flow to catch basin

- o Street and gutter flow

Description of sampling method

- o Composite: center and four corners

Traffic estimate (ADT)

- o 12000

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Unknown

- o COC provided on 11/06/2009



ADT : average daily traffic

CB : catch basin

COC : chain of custody

H : highway land use

IN : inside reclaimed water area

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - CB - H - IN - 3)

Sample identification

- o TPH – CB – H – IN – 3

Jurisdiction

- o Tampa

Land use zoning

- o Heavy commercial/highway

Location

- o 120 N Lois Avenue

Co-ordinates

- o 27 56' 42.15" N and 82 30'50.00" W

Date and time (with previous dry hours)

- o 11/4/2009 10:00 AM

- o pdh ~ 184

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 5% tree canopy and 85% impervious

Potential constraints to property access

- o No

Typical geometry and R/W section

- o 4-lane street and heavy camber to gutter

Run-on conditions

- o Downspouts, parking lots, side streets, and commercial frontage

Reclaimed water application

- o Yes

Basic description of soil type

- o Moderately-drained

Drainage appurtenances in the area

- o City of Tampa standard curb inlet

Significant features influencing PM, N, P load

- o High curbing

Predominant PM, N, and P sources

- o Biogenic

Description of catch basin

Type

- o Curb inlet

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Okay

Condition of PM residuals

- o Dry

Dimensions and volume

- o 3 ft (w) x 4 ft (d) x 2 ft (l)

Description of flow to catch basin

- o Street and gutter flow

Description of sampling method

- o Composite: center and four corners

Traffic estimate (ADT)

- o 12000

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Unknown

- o COC provided on 11/06/2009



ADT : average daily traffic

CB : catch basin

COC : chain of custody

H : highway land use

IN : inside reclaimed water area

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - CB - R - IN - 1)

Sample identification

- o TPH – CB – R – IN – 1

Jurisdiction

- o Tampa

Land use zoning

- o Single family residential

Location

- o 483 Royal Ponciana Drive

Co-ordinates

- o 27 56' 18.21 N and 82 31'45.47" W

Date and time (with previous dry hours)

- o 11/4/2009 9:00 AM
- o pdh ~ 183

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 20% tree canopy and 25% impervious

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Granite curbing

Run-on conditions

- o Large homes, downspouts, and driveways

Reclaimed water application

- o Yes

Basic description of soil type

- o Moderately drained

Drainage appurtenances in the area

- o City of Tampa standard curb inlet

Significant features influencing PM, N, P load

- o Marked "DO NOT DUMP"

Predominant PM, N, and P sources

- o Anthropogenic

Description of catch basin

Type

- o Curb inlet

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Okay

Condition of PM residuals

- o Dry

Dimensions and volume

- o 3 ft (d) x 2 ft (l) x 2 ft (w)

Description of flow to catch basin

- o Sheet and gutter flow

Description of sampling method

- o Composite taken from four corners and center

Traffic estimate (ADT)

- o ~500

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Unknown
- o COC provided on 11/06/2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - CB - R - IN - 2)

Sample identification

- o TPH – CB – R – IN – 2

Jurisdiction

- o Tampa

Land use zoning

- o Single family residential

Location

- o 4400 W Swann Avenue S

Co-ordinates

- o 27 56' 15.45 N and 82 31'10.24" W

Date and time (with previous dry hours)

- o 11/4/2009 9:30 AM

- o pdh ~ 183

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 80% tree canopy and <5% impervious

Potential constraints to property access

- o No, city park

Typical geometry and R/W section

- o Light camber and granite curbing

Run-on conditions

- o Downspouts and driveways

Reclaimed water application

- o Yes

Basic description of soil type

- o Well drained

Drainage appurtenances in the area

- o Curb inlet with a grate inlet in front

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Biogenic

Description of catch basin

Type

- o Curb inlet with grate inlet

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Okay

Condition of PM residuals

- o Dry

Dimensions and volume

- o 5 ft (d) x 3 ft (l) x 3 ft (w)

Description of flow to catch basin

- o Sheet and gutter flow

Description of sampling method

- o Composite taken from four corners and center

Traffic estimate (ADT)

- o ~850

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Unknown
- o COC provided on 11/06/2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - CB - R - IN - 3)

Sample identification

- o TPH – CB – R – IN – 3

Jurisdiction

- o Tampa

Land use zoning

- o Single family residential

Location

- o 408 S Hubert Avenue

Co-ordinates

- o 27 56' 25.07 N and 82 30'57.75" W

Date and time (with previous dry hours)

- o 11/4/2009 8:40 AM
- o pdh ~ 183

Sampling personnel

- o Ben Koplin

Description of catchment

Cover information

- o 40% tree canopy and 25% impervious

Potential constraints to property access

- o No

Typical geometry and R/W section

- o Light camber and granite curbing

Run-on conditions

- o Downspouts and driveways

Reclaimed water application

- o Yes

Basic description of soil type

- o Well drained

Drainage appurtenances in the area

- o Curb inlet

Significant features influencing PM, N, P load

- o None

Predominant PM, N, and P sources

- o Biogenic

Description of catch basin

Type

- o Curb inlet

Approximate age

- o Unknown

Previous cleaning activity

- o Unknown

Condition

- o Okay

Condition of PM residuals

- o Dry

Dimensions and volume

- o 4 ft (d) x 2 ft (l) x 2 ft (w)

Description of flow to catch basin

- o Sheet and gutter flow

Description of sampling method

- o Composite taken from four corners and center

Traffic estimate (ADT)

- o ~300

Approx. weight of recovered sample

- o Unknown

Description of sample and COC

- o Unknown
- o COC provided on 11/06/2009



ADT : average daily traffic
CB : catch basin
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - SS - C - IN - 1)

Sample ID

- o TPH – SS – C – IN – 1

Jurisdiction

- o City of Tampa

Land Use Zoning

- o Commercial

Location

- o Swann Ave. (between Lucerne Audobon Ave. and S MacDill Ave.)

Co-ordinates

- o 27 56' 14.82 N 82 29'19.90 W

Date and Time (with Previous Dry Hours)

- o 7/15/2010 6:20 am
- o ~24

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Various/Blacktop, concrete

Typical Geometry and R/W Section

- o Minimal crown, varies

Run-on Conditions

- o Lateral street runoff

Drainage Appurtenances in the Catchment Area

- o Curb Inlets, City of Tampa standard

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Neither is predominant

Reclaimed Water Application

- o Yes

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper

Dimensions of Area Cleaned

- o 10 ft. wide

Previous Cleaning Activity

- o (cleaned approximately every 36 days)

Traffic Estimate (ADT)

- o 14,185

Approx. Weight of Recovered Sample

- o Unknown

Description of Sample and COC

- o unknown
- o COC provided on 7/19/2010

ADT : average daily traffic
C : commercial land use
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - SS - C - IN - 2)

Sample ID

- o TPH – SS – C – IN – 2

Jurisdiction

- o City of Tampa

Land Use Zoning

- o Mixed commercial and residential

Location

- o Morrison Ave. (between Marti Street and MacDill Ave.)

Co-ordinates

- o 27 56' 01.80 N 82 29'31.48 W

Date and Time (with Previous Dry Hours)

- o 7/15/2010 6:52 am
- o ~24

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Various/Blacktop, concrete

Typical Geometry and R/W Section

- o Minimal crown, varies

Run-on Conditions

- o Lateral street runoff

Drainage Appurtenances in the Catchment Area

- o Curb Inlets, City of Tampa standard

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Neither is predominant

Reclaimed Water Application

- o Yes

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper

Dimensions of Area Cleaned

- o 10 ft. wide

Previous Cleaning Activity

- o (cleaned approximately every 36 days)

Traffic Estimate (ADT)

- o 3,138

Approx. Weight of Recovered Sample

- o Unknown

Description of Sample and COC

- o unknown
- o COC provided on 07/19/2010

ADT : average daily traffic
C : commercial land use
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - SS - C - IN - 3)

Sample ID

- o TPH – SS – C – IN – 3

Jurisdiction

- o City of Tampa

Land Use Zoning

- o Mixed commercial

Location

- o Azeele street (between Dale Mabry Ave. and Grady Ave.)

Co-ordinates

- o 27 56' 28.46 N 82 30'20.58 W

Date and Time (with Previous Dry Hours)

- o 7/15/2010 7:35 am
- o ~24

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Various/Blacktop, concrete

Typical Geometry and R/W Section

- o Minimal crown, varies

Run-on Conditions

- o Lateral street runoff

Drainage Appurtenances in the Catchment Area

- o Curb Inlets, City of Tampa standard

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Neither is predominant

Reclaimed Water Application

- o Yes

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper

Dimensions of Area Cleaned

- o 10 ft. wide

Previous Cleaning Activity

- o (cleaned approximately every 36 days)

Traffic Estimate (ADT)

- o 5,694

Approx. Weight of Recovered Sample

- o Unknown

Description of Sample and COC

- o unknown
- o COC provided on 07/19/2010

ADT : average daily traffic
C : commercial land use
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R/W : right of way
SS : street sweeping
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - SS - H - IN - 1)

Sample ID

- o TPH – SS – H – IN – 1

Jurisdiction

- o City of Tampa

Land Use Zoning

- o Primarily residential area

Location

- o MacDill Ave (between Prospect road and Morrison Ave.)

Co-ordinates

- o 27 55' 55.06 N 82 29'36.23 W

Date and Time (with Previous Dry Hours)

- o 7/15/2010 8:06 am
- o ~24

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Various / blacktop, concrete

Typical Geometry and R/W Section

- o Minimal crown, varies

Run-on Conditions

- o Lateral streets runoff

Drainage Appurtenances in the Catchment Area

- o Curb inlets, City of Tampa standard

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Neither is prominent

Reclaimed Water Application

- o Yes

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper

Dimensions of Area Cleaned

- o 10 ft. wide

Previous Cleaning Activity

- o 10/20/2009 (cleaned approximately every 36 days)

Traffic Estimate (ADT)

- o 18,615

Approx. Weight of Recovered Sample

- o Unknown

Description of Sample and COC

- o unknown
- o COC provided on 07/19/2010

ADT : average daily traffic

COC : chain of custody

H : highway land use

IN : inside reclaimed water area

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

SS : street sweeping

TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - SS - H - IN - 2)

Sample ID

- o TPH – SS – H – IN – 2

Jurisdiction

- o City of Tampa

Land Use Zoning

- o Primarily residential area

Location

- o Lois Ave (between North A street and Gray street)

Co-ordinates

- o 27 56' 52.68 N 82 30'50.20 W

Date and Time (with Previous Dry Hours)

- o 7/15/2010 8:42 am
- o ~24

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Various / blacktop, concrete

Typical Geometry and R/W Section

- o Minimal crown, varies

Run-on Conditions

- o Lateral streets runoff

Drainage Appurtenances in the Catchment Area

- o Curb inlets, City of Tampa standard

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Neither is prominent

Reclaimed Water Application

- o Yes

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper

Dimensions of Area Cleaned

- o 10 ft. wide

Previous Cleaning Activity

- o Cleaned approximately every 36 days

Traffic Estimate (ADT)

- o 31,511

Approx. Weight of Recovered Sample

- o Unknown

Description of Sample and COC

- o unknown
- o COC provided on 07/19/2010

ADT : average daily traffic

COC : chain of custody

H : highway land use

IN : inside reclaimed water area

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

SS : street sweeping

TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - SS - H - IN - 3)

Sample ID

- o TPH – SS – H – IN – 3

Jurisdiction

- o City of Tampa

Land Use Zoning

- o Commercial

Location

- o Kennedy Blvd. (between Lois Ave. and Hesperides)

Co-ordinates

- o 27 56' 41.49 N 82 31'05.06 W

Date and Time (with Previous Dry Hours)

- o 7/15/2010 9:13 am
- o ~24

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Various / blacktop, concrete

Typical Geometry and R/W Section

- o Minimal crown, varies

Run-on Conditions

- o Lateral streets runoff

Drainage Appurtenances in the Catchment Area

- o Curb inlets, City of Tampa standard

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Neither is prominent

Reclaimed Water Application

- o Yes

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper

Dimensions of Area Cleaned

- o 10 ft. wide

Previous Cleaning Activity

- o Cleaned approximately every 36 days

Traffic Estimate (ADT)

- o 39,758

Approx. Weight of Recovered Sample

- o Unknown

Description of Sample and COC

- o unknown
- o COC provided on 07/19/2010

ADT : average daily traffic

COC : chain of custody

H : highway land use

IN : inside reclaimed water area

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R/W : right of way

SS : street sweeping

TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - SS - R - IN - 1)

Sample ID

- o TPH – SS – R – IN – 1

Jurisdiction

- o City of Tampa

Land Use Zoning

- o Single family residential

Location

- o Columbia Drive (between Arbor Place and Bering street)

Co-ordinates

- o 27 56' 00.29 N 82 27'22.32 W

Date and Time (with Previous Dry Hours)

- o 7/15/2010
- o ~24

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Various/blacktop, concrete

Typical Geometry and R/W Section

- o Minimal crown, varies

Run-on Conditions

- o Lateral street runoff

Drainage Appurtenances in the Catchment Area

- o Curb inlets, City of Tampa standards

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Neither is predominant

Reclaimed Water Application

- o Yes

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper

Dimensions of Area Cleaned

- o 10 ft. wide

Previous Cleaning Activity

- o (cleaned approximately every 36 days)

Traffic Estimate (ADT)

- o 885

Approx. Weight of Recovered Sample

- o Unknown

Description of Sample and COC

- o unknown
- o COC provided on 07/29/2010

ADT : average daily traffic
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - SS - R - IN - 2)

Sample ID

- o TPH – SS – R – IN – 2

Jurisdiction

- o City of Tampa

Land Use Zoning

- o Single family residential

Location

- o Bosphorous Ave. (between Biscayne Ave. and Huron Ave.)

Co-ordinates

- o 27 55' 28.41 N 82 27'26.13 W

Date and Time (with Previous Dry Hours)

- o 7/15/2010 5:15 am
- o ~24

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Various/blacktop, concrete

Typical Geometry and R/W Section

- o Minimal crown, varies

Run-on Conditions

- o Lateral street runoff

Drainage Appurtenances in the Catchment Area

- o Curb inlets, City of Tampa standards

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Neither is predominant

Reclaimed Water Application

- o Yes

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper

Dimensions of Area Cleaned

- o 10 ft. wide

Previous Cleaning Activity

- o Cleaned approximately every 36 days

Traffic Estimate (ADT)

- o 1,275

Approx. Weight of Recovered Sample

- o Unknown

Description of Sample and COC

- o unknown
- o COC provided on 07/19/2010

ADT : average daily traffic
COC : chain of custody
IN : inside reclaimed water area
N : nitrogen
P : phosphorus
pdh : previous dry hours
PM : particulate matter
R : residential land use
R/W : right of way
SS : street sweeping
TPH : Tampa

FIELD INFORMATION - TAMPA (TPH - SS - R - IN - 3)

Sample ID

- o TPH – SS – R – IN – 3

Jurisdiction

- o City of Tampa

Land Use Zoning

- o Single family residential

Location

- o Martinique Ave. (between Lucerne Ave. and Rhine Ave.)

Co-ordinates

- o 27 54' 43.97 N 82 27'33.55 W

Date and Time (with Previous Dry Hours)

- o 7/15/2010 5:46 am
- o ~24

Sampling Personnel

- o Claude McNeil

Description of Catchment

Pavement Type

- o Various/blacktop, concrete

Typical Geometry and R/W Section

- o Minimal crown, varies

Run-on Conditions

- o Lateral street runoff

Drainage Appurtenances in the Catchment Area

- o Curb inlets, City of Tampa standards

Significant Features that may affect PM, N and P loadings

- o None

Predominant Source

- o Neither is predominant

Reclaimed Water Application

- o Yes

Description of Sweeping Equipment

- o Elgin Pelican mechanical sweeper

Dimensions of Area Cleaned

- o 10 ft. wide

Previous Cleaning Activity

- o Cleaned approximately every 36 days

Traffic Estimate (ADT)

- o 825

Approx. Weight of Recovered Sample

- o Unknown

Description of Sample and COC

- o unknown
- o COC provided on 07/19/2010

ADT : average daily traffic

COC : chain of custody

IN : inside reclaimed water area

N : nitrogen

P : phosphorus

pdh : previous dry hours

PM : particulate matter

R : residential land use

R/W : right of way

SS : street sweeping

TPH : Tampa